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MAY 12, 1917.

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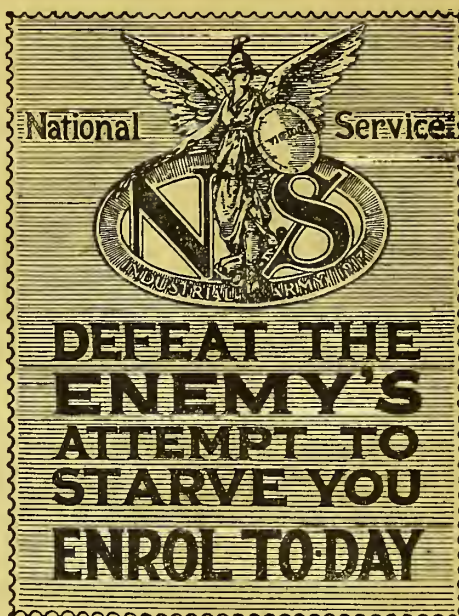
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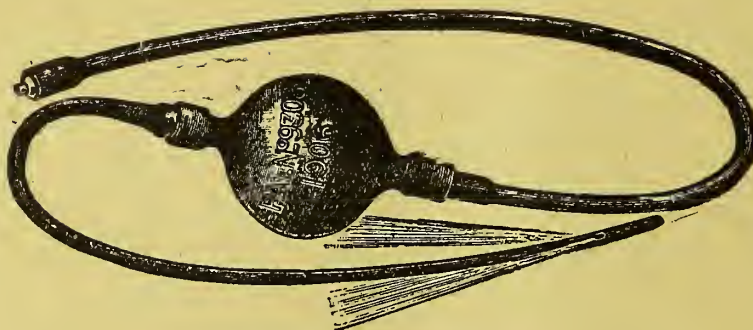
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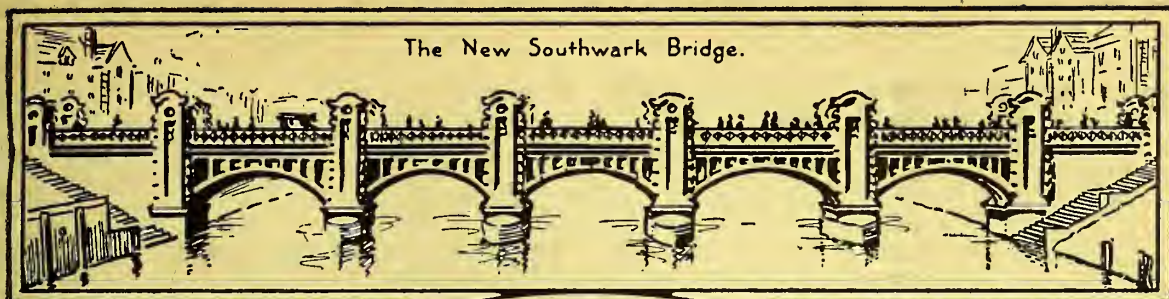
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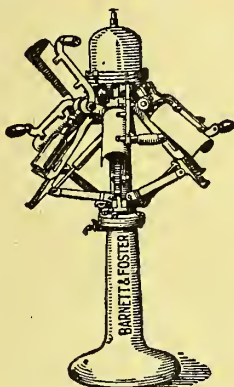
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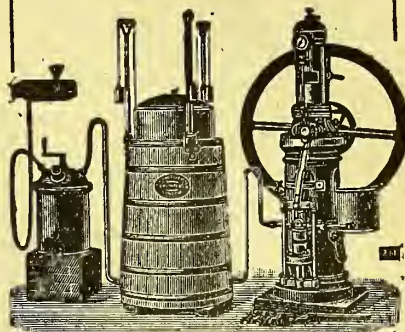
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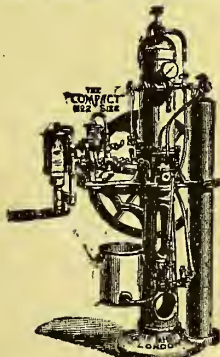
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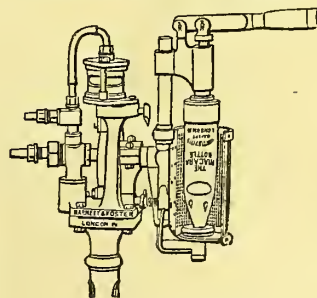
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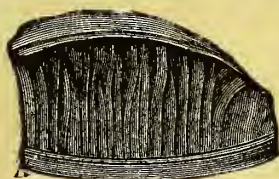
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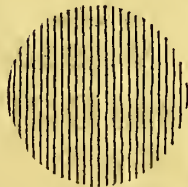


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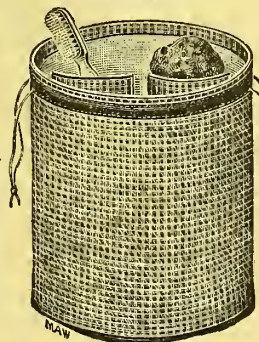
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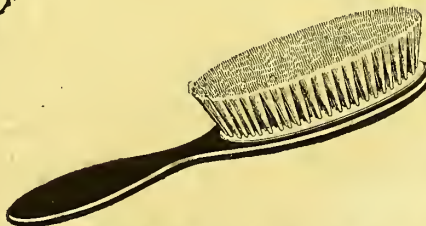
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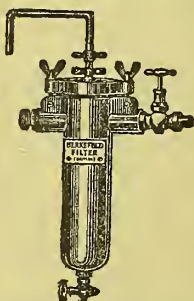
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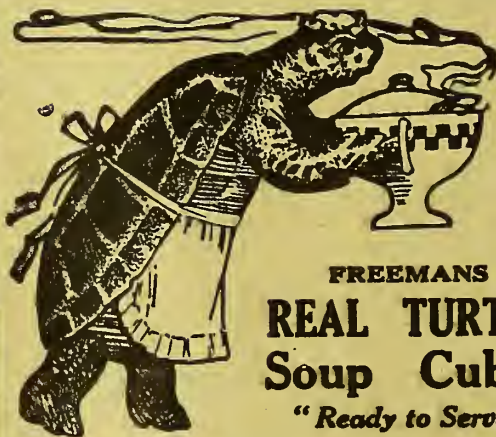
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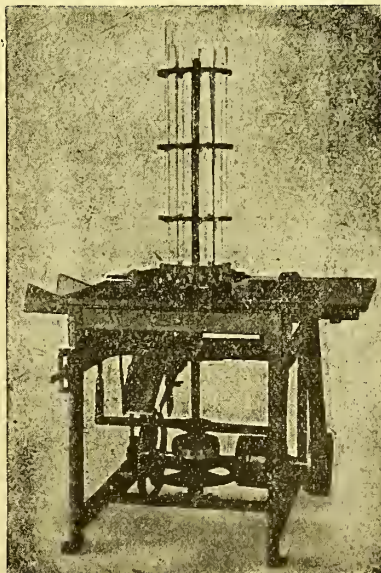
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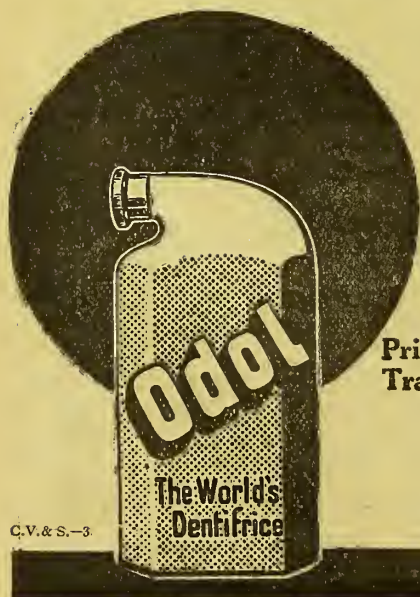
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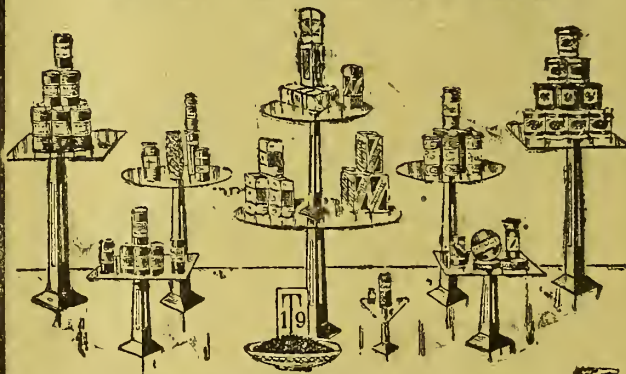


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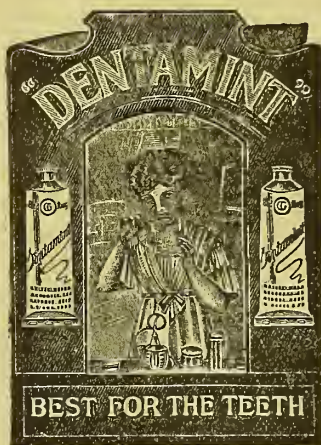
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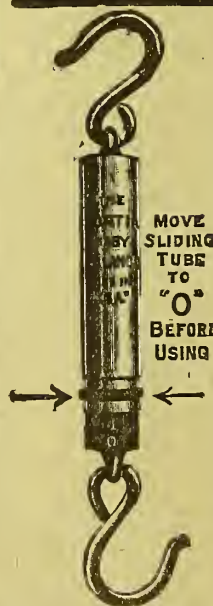
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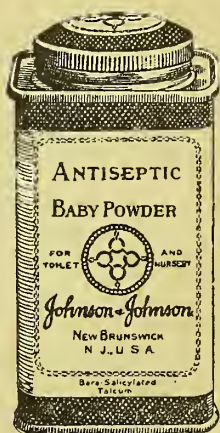
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Coming Events.

Sunday, May 13.

Birmingham Chemists' Field Ambulance, 8 Carr's Lane, at 10.30 A.M. Lecture and demonstration in bandaging. Classes are also to be held in the evenings of May 15 and 17, and in the afternoon of May 16.

Pharmacists' Volunteer Corps, at 10.15 A.M., S.W. Railway Station, Richmond, for field-day. Drills will be held on May 16 and 17 at 3 P.M. at Imperial College Union, and every evening and Saturday afternoons at the Headquarters, 17 Bloomsbury Square, W.C.

Wednesday, May 16.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 3 P.M. Annual general meeting.
Chemists' Dental Society, Holborn Restaurant, London, W.C., at 8 P.M. Annual meeting.

Thursday, May 17.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Lecture.
West Ham Association of Pharmacy, Earls Hall, Earls Ham Grove, Forest Gate, E. Meeting.
Neal Lodge of Pharmacy, Holborn Restaurant, London, W.C., at 2.30 P.M. General meeting.

Friday, May 18.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 5.30 P.M. Professor Frederick Soddy on "The Complexity of the Chemical Elements."

European War News.

Assuring Message from Russia.

We received on Tuesday the following message from our correspondent in Petrograd:

"Petrograd.

"New Government splendidly mastering situation. Gradually restoring order. Banks reopened."

A letter from our correspondent was printed in the *C. & D.*, May 5, p. 43.

Import and Export Notices.

AUSTRALIAN COMMONWEALTH.—The Board of Trade have received from the Australian High Commissioner a list specifying articles the exportation of which is prohibited or restricted. The list occupies seven pages of the "Board of Trade Journal" (May 3), and is the first which has been received in this country showing the prohibited exports in a consolidated form. It includes many chemicals and raw materials similar to those on the British prohibited lists.

UNITED KINGDOM.—The Director of the War Trade Department notifies that it has been decided that goods brought to the United Kingdom for transhipment to destinations abroad are to be subject to the usual prohibitions on import and export, except that under a general licence which has been issued an import licence will not be required as regards goods brought to the United Kingdom in neutral vessels. At present it is not considered desirable that vessels coming to the United Kingdom should bring cargo for transhipment to foreign countries, and it may be necessary to restrict considerably the issue of licences. Applications for permission to tranship goods should be made on a special form, copies of which may be obtained on personal application at any Custom House.

Seeds, Oils, and Fats Prices Fixed.

With reference to the Orders, of the Minister of Munitions published on May 1 and May 9, 1917, restricting dealings in seeds, oils, and fats, the Minister of Munitions gives notice that he licences until further notice all sales and purchases of special quality seeds of any of the descriptions referred to in the said Orders (see *C. & D.*, May 5, p. 33), specifically for cultivation, irrespective of quantity, and also all sales and purchases of home-melted tallow and grease for any purposes and in any quantities. The Order of May 9 is as follows: "Whereas the Minister of Munitions desires to extend the Order made by him, dated May 1, regulating dealings in seeds, nuts, kernels, oils, and fats in the respects hereinafter appearing. Now, therefore, in pursuance of the powers conferred upon him by the Defence of the Realm Regulations and of all other powers enabling him, the Minister of Munitions hereby orders as follows: As on and from the day following the date of this Order until further notice the schedule hereto shall be deemed substituted for the second schedule to the said Order of May 1, and accordingly no person shall purchase, sell, or deal in, or offer to purchase, sell, or deal in, any of the articles specified in the schedule to this Order at a price exceeding the price set opposite to the same in the said schedule. Provided that this restriction on price shall not apply to any sale or purchase of any of the said articles which under Clause 1 of the said Order of May 1 is authorised to be effected without any licence issued by or under the authority of the Minister of Munitions, nor to any sale or purchase of special quality seeds sold and purchased specifically for cultivation:

MAXIMUM PRICES.

1. Seeds, Nuts, and Kernels (per ton).

Castorseed, 37*l.*; copra, 46*l.*; cottonseed, 19*l.*; gingelly (sesame) seed, 32*l.*; ground-nuts, 32*l.*; hempseed, 30*l.*; linseed, 30*l.*; nigerseed, 28*l.*; palm-kernels, 26*l.* 10s. East Coast ports, 26*l.* West Coast ports; rapeseed, 30*l.*

All the above prices are net prices for seeds, nuts, and kernels, in bags *ex* ship, quay or warehouse in the United Kingdom.

2. Oils and Fats (per ton).

Castor oil, 80*l.*; coconut oil (crude), 70*l.* (refined), 85*l.*; cotton oil (crude), 60*l.* (refined soap-oil), 67*l.* (refined edible-oil), 75*l.* (American refined), 95*l.*; gingelly (sesame) oil, 65*l.*; ground-nut oil (crude), 78*l.* (refined), 90*l.*; kapokseed oil (crude), 55*l.* (refined), 70*l.*; linseed oil (raw), 58*l.* (boiled), 61*l.* (refined), 63*l.*; nigerseed oil (crude), 60*l.*; oleo oil, 120*l.*; palm-kernel oil (crude extracted), 51*l.* (crude crushed), 52*l.* (refined), 67*l.*; palm oil, 44*l.*; premier jus, 94*l.*; rapeseed oil (crude), 66*l.* (refined), 71*l.* (edible), 81*l.*; soya oil (crude), 60*l.* (refined), 75*l.*; seal oil (crude), 60*l.*; tallow (imported), 68*l.*

All the above prices are for oil or fat, net, naked, *ex* ship, mill or warehouse in the United Kingdom. Packages may be charged extra at current market rates, but not exceeding 4*l.* per ton on the oil or fat.

Personalia.

MR. STANLEY J. GOOD, son of Mr. J. T. Good, chemist, 110 Cheltenham Road, Bristol, has received a commission in the Border Regiment.

LANCE-CORPORAL G. B. FORSTER, of the Cameronians, second son of the late James Forster, chemist, Musselburgh, has been severely wounded.

MR. A. W. KILLICK, Forest Hill, S.E., South London representative of Corbyn, Stacey & Co., Ltd., Stepney, has joined the Army Service Corps (Motor Transport). He hopes to resume his work after the war.

CAPTAIN J. DOUGLAS DRYSDALE has been mentioned in Field-Marshal Sir Douglas Haig's Despatches for distinguished and gallant duty while serving in the Royal Flying Corps. Captain Drysdale is a partner with his father in J. W. Drysdale & Sons, 16 Fish Street Hill, London, E.C., and was formerly in the Middlesex Regiment; but his engineering skill and knowledge took him into the R.F.C., where, since he stopped flying, he is doing excellent structural work.

Trading with the Enemy.

A new Consolidating List, containing the names of over two thousand persons and firms with whom persons in the United Kingdom are forbidden to trade under the Trading with the Enemy (Statutory List) Proclamation, 1916, has just been issued. With reference to this, the Controller of Foreign Trade remarks: "Although the Statutory List has now been in existence for a year, cases still come to the notice of the Department in which firms are corresponding with persons on the Statutory List, and they not infrequently give as an excuse that they have never heard of the list. It is important that everyone engaged in foreign trade should realise that he is under an obligation to make himself familiar with the Statutory List and to observe it in his dealings. Failure in this respect renders him liable to the heavy penalties provided by the Trading with the Enemy Acts, and these apply to holding any communication whatever with anybody on the Statutory List, and not merely to entering into an agreement or continuing to carry on business with such persons. In exceptional cases a licence may be obtained from the Foreign Trade Department exempting from the prohibition."

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," May 2, 1917.)

- "JETALINUM," for a preservative for iron, etc. (1); "KRUSOL," for an agricultural preservative (2); Device of buffers, for a waterproofing-fluid (50). By Standardised Disinfectants Co., Ltd., 26 Billiter Buildings, E.C. 3. 376,086, 377,064, 377,071.
- "CHLORANTHRENE," for mineral dyes (1); "BRIDALTA," for chemicals (1). By British Dyes, Ltd., Huddersfield. 376,181, 377,078.
- Device including words "SUNIC X RAY PLATES" and "THE IDEAL PLATE FOR DIAGNOSIS" ("Ideal" disclaimed); for x-ray photographic plates (1). By Watson & Sons (Electro-Medical), Ltd., 196 Great Portland Street, W. 376,399. (Associated).
- "NOVOLENUM," for wood-preserving stains (1). By R. Young & Co., Ltd., 38 Elliot Street, Glasgow. 377,289.
- "VIROPHOS," for a veterinary food (2); "AMFULIQUE," for surgical apparatus, etc. (11). By C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, E.C. 2. 376,727, 375,766. (Associated).
- Circular device of Sun God surrounded by words "SCIENCE COMES TO THE AID OF HUMANITY" and letters "D.M.N." ("D.M.N." disclaimed); for medicinal chemicals (3). By The Muller Laboratories, Ltd., 144 Albany Street, N.W. 375,874.
- "MICRO BRAND," with picture of microscope above scroll with motto "IN TENUI LABOR"; for all goods (3). By Danyez Virus, Ltd., 52 Leadenhall Street, E.C. 376,171.
- "CALCILINE," for pharmaceutical preparations (3). By A. Watelet & Cie., 219 Rue de l'Université, Paris. 376,272.
- Star-shaped device, including pear on branch, surrounded by words "KYEKAO SWALCLIFFE"; for pharmaceutical preparations (3). By G. J. Emmerson, Swalcliffe, Kent. 377,043.
- "CHILPAX," for medicinal chemicals (3). By Hirst, Brooke & Hirst, Ltd., Leeds. 376,711.
- Circular device of dove returning to the Ark, and including words "PAINSOVA" and "THE DAWN OF HOPE" ("Painsova" disclaimed); for embrocations (3). By J. W. Haythornthwaite, 102 Hibson Road, Nelson. 377,268.
- "LUCIFAX," for by-products of monazite (4). By Atwell Chemicals, Ltd., Winchester House, Old Broad Street, E.C. 377,188.
- "PROMETA"; for goods (42). By Mapleton's Nut Food Co., Ltd., Garston, near Liverpool. 376,863.
- "DORSELLA"; for food-substances (42). By C. & G. Prideaux, Ltd., 10 Hop Exchange, S.E. 1. 377,019.
- "VERTEX"; for food-substances (42). By Selfridge & Co., Ltd., 404 Oxford Street, W. 1. 377,350. (Associated).
- "OPORAL"; for goods (48). By Lyndwood & Co., 3 Chryssell Road, Brixton, S.W. 374,809. (Associated).

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

British Pharmaceutical Conference.

MR. C. A. HILL, B.Sc., Ph.C., presided at a meeting of the Executive Committee, held at 16 Bloomsbury Square, W.C., on May 3. Messrs. T. H. W. Idris (Vice-President), D. Lloyd Howard (Hon. Treasurer), H. Deane, C. H. Hampshire, A. R. Melhuish, H. Skinner, and R. R. Bennett (Hon. Secretary) were also present. The deaths were reported of Messrs. C. F. Carr (Nottingham), R. Cuthbert (Huddersfield), W. Hayhoe (Bournemouth), S. Kay (Stockport), A. Middleton (Nottingham), F. Sutton (Norwich), and R. F. Young (New Barnet). It was agreed to send a letter of condolence to the relatives of each of these old members. The report of the Research Sub-Committee was adopted, and it was decided to hold the annual general meeting in London on Wednesday, July 11, at 11.30 A.M. Professor A. R. Cushny, M.D., F.R.S. (London), and Mr. J. Cheshire (Grantham) were elected members of the Conference.

Cocaine Eye-drops.

In pursuance of Regulation 40B of the Defence of the Realm (Consolidation) Regulations, the Home Secretary has issued a general permit to any occupier of a factory or workshop to which the Factory and Workshop Act, 1901, applies, to purchase, for the purpose of giving first-aid treatment in cases of injury to the eye occurring at the works, a preparation consisting of an admixture of cocaine in castor oil with mercuric chloride in a proportion of not more than one part of cocaine in 200 and not less than one part of mercuric chloride in 3,000, and on the conditions that the preparation is used for this purpose and no other, and that it is kept in the custody of the occupier or of a responsible official nominated in writing by the occupier. It will be permissible under this permit for chemists to supply the preparation in question to any person known to be the occupier of a factory or workshop for the purpose mentioned, without the production of any special authority under the regulation. All sales of the preparation made by chemists in virtue of this permit must be entered in the record of dealings required to be kept under the Regulation. The Factory Department of the Home Office issues a circular in regard to first-aid in factories in which the following recommendations are made:

EYE INJURIES.

A Foreign Body.—Apply the eye-drops, Solution No. 1, to the affected eye-ball by means of the camel-hair brush in the bottle.

Do not try to remove any particle which cannot be brushed away.

Tie up with a clean handkerchief or bandage.

Go to a doctor at once.

An Acid Burn.—Brush the affected eye-ball thoroughly with Solution No. 2.

Then apply Solution No. 1 in the same way.

Apply an eye-pad and tie up with clean handkerchief or bandage.

Go to a doctor at once.

[The solutions referred to are as follows:]

| Solution No. 1. | | | | |
|-----------------|-----|-----|-----|---------------|
| Cocaine | ... | ... | ... | 0.5 per cent. |
| Hyd. perchlor. | ... | ... | ... | 1 in 3,000 |
| In castor oil. | | | | |

Instructions to chemist for making eye-drops: Weigh 95 grams of castor oil into a flask capable of holding twice the quantity. Add 0.5 gram of powdered cocaine. Warm on a water-bath till dissolved. While the solution is still warm (but not hot) add one cubic centimetre of a solution containing 3.3 grams of mercuric chloride in 100 cubic centimetres of absolute alcohol. Mix the solutions by rotating the flask.

About half an ounce, or 15 c.c., of this solution should be supplied in a bottle from the cork of which a camel-hair brush is pendent in the fluid.

Solution No. 2.

| | | | | |
|--------------------|-----|-----|-----|--------|
| Sodium bicarbonate | ... | ... | ... | 15 gr. |
| Water... | ... | ... | ... | 1 oz.] |

Royal Academy.

The exhibition of the Royal Academy of Arts, which was opened this week at Burlington House, Piccadilly, London, W., does not appear to contain anything of direct pharmaceutical interest. The portrait of Lord Rhonda, by Mr. Solomon, shows the President of the Local Government Board in the character of a business man. His daughter, Lady Mackworth, who directs the business of the British

purchasers of Sanatogen, also has her portrait, by Mr. Solomon, in the exhibition. In Gallery No. II. there is an oil-painting of the late Mr. F. H. Neville, F.R.S., who was a lecturer in chemistry at the Sidney Sussex College, Cambridge. Photographic chemists will notice the "blue print" in the hand of Professor Sir John Biles, whose portrait is shown in Gallery No. II.; the artist has matched the ferrocyanide blue excellently. There are many pictures of direct war interest, and most of them recall pathetic memories. An "Australian Advance Dressing-station on the Somme Front," by Power, is shown in Gallery No. VII.; the scene is practically in the front trenches. The business heart of the Empire is depicted in Wyllie's "London Docks, 1916" (No. 117) and Williams's "Custom House, E.C." (No. 863). In the architectural rooms are drawings of the new laboratories at Wisley for the Royal Horticultural Society (No. 1,370); a fine conception of the main entrance to the Imperial College of Science and Technology, South Kensington (No. 1,455), by Sir Aston Webb; two pictures of the new offices of the General Medical Council (No. 1,465), showing the entrance and council-chamber, the latter as given in THE CHEMIST AND DRUGGIST, July 29, 1916. Another picture in the same room shows exterior and interior views of the Agricultural Laboratory, Rothamsted (No. 1,478). The sculpture section contains a memorial relief of Sir Edward James Reed, F.R.S., "scientist, author, poet." He was well-known as the Admiralty chief naval constructor, this memorial of him being intended for Cardiff Town Hall.

Apothecaries' Assistants' Examination.

At the examination of the Society of Apothecaries in London on April 23, 25, 26, 27, and 30, for the certificate to act as an assistant to an apothecary in compounding and dispensing medicines, the following passed:

| | | |
|-----------------------|--------------------|--------------------|
| Abram, B. E. | Hayman, M. E. | Priestner, E. |
| Adamson, I. M. W. | Hewett, D. E. | Purvis, F. E. S. |
| Anthony, A. | Hunter, M. | Race, H. H. |
| Attwood, F. M. | James, F. B. | Rae, F. H. |
| Bailey, E. J. H. | Jennings, L. C. | Rigby, V. |
| Baker, D. M. S. | Johnson, A. M. | Rumney, M. |
| Barber, M. E. | Jones, A. M. | Sadler, M. M. |
| Barker, John H. | Kensington, L. M. | Scott, M. C. |
| Bateman, S. K. | King, M. E. | Shaw, G. E. |
| Bayley, J. | Laws, E. G. | Siddens, G. |
| Borrow, I. F. E. | Llewellyn, L. | Skelton, E. G. |
| Broad, D. M. | Layman, N. A. | Smith, A. E. |
| Brothers, F. | Lemeshnik, B. | Smith, William D. |
| Butterworth, B. | Lonsdale, N. | Snelus, S. |
| Chadwick, E. M. | Lucas, I. V. | Southworth, L. H. |
| Cheesman, M. W. | Lyons, G. E. | Spence, E. E. |
| Christie, A. M. C. | Marks, E. | Spooner, G. L. |
| Churchfield, Cecil E. | Marriott, E. C. | Steward, G. E. R. |
| Churchill, E. M. | Matthews, E. M. | Stewart, L. |
| Clarke, M. | Matthews, F. M. | Taylor, M. |
| Connell, E. C. | Mavor, E. A. | Taylor, F. M. |
| Cottle, A. A. | May, M. A. V. | Thomas, Alfred |
| Cross, E. V. | Mendel, V. E. | Thomas, E. N. |
| Cuthbert, A. N. | Mills, J. C. | Todd, A. R. |
| Davidson, O. B. | Mitchell, M. B. | Townend, M. |
| Davies, P. G. | Morgan, Ella | Trickett, C. M. |
| Davis, C. E. | Morgan, Evelyn | Ussher, D. G. |
| Davis, Walter R. | Mourant, K. E. | Viggars, D. |
| Derrick, E. G. | Muir, A. R. | Walker, H. |
| Dod, M. F. | Olarenschaw, G. M. | Ward, H. H. |
| Dyke, M. F. | Oldham, G. M. | Warren, E. C. |
| Gell, W. J. | Parry, M. | Wilkinson, E. M. |
| Gilderson, M. | Pearce, E. M. | Williams, E. R. M. |
| Glew, M. A. | Picken, M. G. | Williams, H. J. |
| Goddard, S. | Pittard, L. M. | Wilson, A. M. |
| Gresswell, E. | Powell, M. L. | Wilson, N. A. |
| Grinstead, G. M. | Pratt, O. M. | Woodward, D. A. |
| Gunson, B. G. | Price, B. | |

[It will be noticed that the names of five males occur in the list, but whether or not the rest are females we cannot tell, as the Society does not furnish further particulars.—EDITOR C. & D.]

Contracts.

The following tenders have been accepted by the bodies named:

Barnsley Education Committee.—Mr. W. A. Bellamy, chemist for a year.

Carnarvon Town Council.—United Alkali Co., Ltd., vitriol at 75s. per ton.

Dewsbury Corporation.—Duthie & Co., Heckmondwike, disinfecting-powder and liquid disinfectant.

East Ham Town Council.—Burgoyne, Burbidges & Co., Ltd., chemicals, drugs, medicines, and surgical appliances as specified; H. Edward Hope & Co., creosote; Middleton Bros., Jeyes' Sanitary Compounds Co., Ltd., Newton, Chambers & Co., Ltd., McDougall Bros., W. Stone & Son, and A. W. Green, detergents and disinfectants as specified.

Gloucester City Isolation Hospital.—Mr. H. R. Broad, drugs, etc.

Hertford and Ware Joint Hospital.—Mr. J. H. S. Lewis, chemist and druggist, Ware, for medical sundries.

Lambeth Board of Guardians.—Mappin & Webb, Ltd., in a tender submitted "without engagement," stated that the price of graduated medicine-glasses had increased from 4s. 1d. to 5s. per dozen, and the Board agreed to pay the increased price.

London County Council.—Chemicals and drugs, Baiss Bros. & Co., Ltd., 426l.; Boots Pure Drug Co., Ltd.; Burgoyne, Burbidges & Co., Ltd., 89l.; Corbyn, Stacey & Co., Ltd., 68l.; Thos. Hodgkinson, Prestons & King, 75l.; May & Baker, Ltd., 327l.; W. G. Taylor, 114l.; Willows, Francis, Butler & Thompson, Ltd., 326l.

Manchester Town Council.—Liverpool Lint Co., surgical dressings.

Portsmouth Royal Hospital.—Baggs Bros., mineral waters; Pether & Co., Benger's food, borax (lump).

Waterloo-with-Seaforth Urban District Council.—Killgerm Co., Ltd., liquid disinfectants; Taylor's Automatic Disinfecter, Ltd., carbolic acid and carbolic powder.

Birmingham.

Artificial-limb makers in Birmingham are working at high pressure.

The new wing of the L.N.W. Arcade is now ready. Hedges' pharmacy is near the corner of the annexe.

The Birmingham Homœopathic Hospital has suffered severely financially during the past year owing to the war—a deficit of nearly 600l.

The Birmingham Chemists' Volunteer Corps have set up neat frames for inserting their weekly printed notices, which are suspended outside the shops of Boots, Ltd., and others.

The pupils of Miss B. Thompson (dispenser to the Women's Hospital, Upper Priory, Birmingham) have made a tour of inspection of Southall Bros. & Barclay's works at Saltley. They were very pleased with and greatly interested in all they saw.

Liverpool.

Sir Edward Evans is taking a recuperative rest, consequent on a short period of indisposition.

A recurrence of cold winds has produced a renewed demand for tablets and syrups which relieve the throat and chest.

The manager (Mr. Corkhill) at Mr. G. P. Jones's Old-hall Street branch has joined the Colours, and a substitute has been found.

The Government regulations concerning quinine, phenacetin, formaldehyde, and now extract of malt, have produced a suspension of sales of these articles pending further instructions.

Mr. Robert Stopforth, a son of the late Richard Stopforth (Rowand & Co.), has been placed first, out of 800 candidates, in a recent technical examination conducted by the War Office. His knowledge of chemistry stood him in splendid stead.

Sheffield.

Sheffield being such an important munition area, it is almost impossible, unless one is a professional photographer, to obtain a permit from the police for the use of a camera.

As the days are getting longer chemists are experiencing more difficulty in getting Insurance scripts presented before the last hour of business. Several chemists are appealing to the public to send their prescriptions earlier in the day.

The Temperance Hall has been taken over by the military authorities and used as a substitution depot. In some cases chemists have received their calling-up notice although recommended as indispensable, and on returning to the recruiting officer are informed that they must take it to the substitution officer. Any chemist receiving his notice should consult the Secretary to the Pharmaceutical Committee before taking any such steps.

Miscellaneous.

WINE-LICENCE.—Mr. A. P. Trimming & Co., Ltd., chemists, Alton) has been granted a medicated-wine retail licence.

BRADFORD DOCTORS have decided to increase their fees by 20 per cent., in consequence of the increased cost of living and materials.

AN AGRI-HORTICULTURAL POISONS-LICENCE has been granted by the Hertfordshire County Council to Harold Aitken, with Beeson & Sons, Rickmansworth.

THOMAS GIBSON, chemist's assistant, was the defendant in a breach of promise action at the Blackburn County Court, when 60l. damages was awarded to Hannah Twigger, and costs brought the amount up to 120l. Judge Sturges, K.C., made an order on May 4 that Gibson should pay 14s. a month.

MR. HENRY BROWN, assistant with Boots, Ltd., Pendleton, Manchester, has been awarded the first prize, value 17. 1s., given by the Manchester Pharmaceutical Association, in the annual prize competition in connection with the local Chemists' Assistants' Association. His paper was pronounced "ideally perfect."

POISONINGS.—The week's reports include the following: The wife of a private in the Middlesex Regiment was found by an Islington jury to have died from lead-poisoning. She was stated to have taken pills containing lead.—The physics master of the Middlesbrough High School poisoned himself with morphine while temporarily insane, leaving behind him a diary which showed that the effects of the drug were slow in appearing.

THE LATE SIR JOSEPH BEECHAM'S PICTURES from his Hampstead residence were sold at Christie's last week, the amount realised in two days being over 97,000*l.* In several respects the most interesting part of the collection was a portfolio containing ten water-colours by Turner, which Sir Joseph had bought from the late W. H. Smith. When Turner thought of painting this group he had ideas for a dozen, and got a picture-dealer to work the matter for him; but the dealer could only get orders for nine at less than 100*l.* each, and Turner painted the tenth (Lake Constance), giving it to the dealer as commission. John Ruskin ultimately bought that picture for 80*l.*, and it was sold at 4,252*l.* 10*s.* at the Beecham sale last week, none of them fetching less than 1,000*l.*

THE AFFAIRS OF JOHN COLLISTER RADCLIFFE, chemist and druggist, Victoria Street, Douglas, Isle of Man, came before the local Court last week on a petition for the approval of a deed of arrangement for the benefit of his creditors. The Court had to decide who should be trustee. The petition was presented in favour of Mr. S. C. Craige, but Mr. R. B. Moore appeared for the Association of Manufacturing Chemists and asked that Mr. P. S. Booth, its secretary and manager, should be the trustee. In the course of the hearing it was stated that the assets were valued by the debtor at 900*l.*, but Mr. Craige thought 400*l.* would be nearer the mark, and the unsecured creditors were about 1,500*l.* The Deemster had no objection to Mr. Booth acting along with Mr. Craige, but Mr. Moore pointed out that he represented 1,000*l.* of the debts, and it was agreed that Mr. Craige should stand down, Mr. Booth accordingly being appointed.

Irish News.

Brevities.

Mr. E. J. Eppel, Ph.C., 13 Mary Street Dublin, has obtained first place in the First Professional examination of the Royal College of Physicians and Surgeons of Ireland.

The Police Committee of the Belfast Corporation is about to issue an agricultural poison licence to Wm. Hamilton, of E. F. Allen & Co., seedsmen, 2 Arthur Street, if proper storage accommodation for poisons is provided.

Mr. C. Sweeney, Ph.C., High Street, Ho'lywood, has taken over the pharmacy business carried on in that town by Mr. J. S. Scott. This establishment was founded in 1864 by the late J. C. C. Payne, J.P., Belfast.

Mr. Thos. J. Orr, L.P.S.I., late manager of the Blackrock branch of Hayes, Conyngham & Robinson, Ltd., Dublin, has purchased the business and goodwill, etc., of Mr. David Blackwood, druggist, Aghnacloy, co. Tyrone, and has transferred the fixtures and stock to other premises, which he is having fitted up for dispensing. Mr. Blackwood will devote his attention to his dental practice.

A new business of manufacturing chemists and wholesale druggists will shortly be opened at Victoria Buildings, Victoria Street, Belfast, under the style of Berrington & McRoberts. The principals are Mr. Herbert McRoberts, formerly of Thomas McMullan, wholesale druggists, Belfast, and Mr. Berrington, who has been in the linen business. The firm are to direct their attention to drugs, sundries, and packed specialties. Mr. James M. Martin has been engaged as the first traveller.

Dr. Blake, Ravensdale, complained to the last meeting of the Dundalk Board of Guardians about the non-arrival of drugs ordered in January. He suggested he should be authorised to purchase the necessary drugs from local chemists and charge the contractors with the cost. The Clerk said some weeks ago the Board accepted the tender of Boileau & Boyd on the ground of convenience and because they are an Irish firm, though Sumner & Co., Liverpool, had sent in a lower tender. When the Local Government Board objected the Guardians asked the Board to reconsider its attitude. The Board would not do this,

but asked that the contract be assigned to the Liverpool firm. On this ruling it would seem that Boileau & Boyd are not the contractors at present. It was decided to authorise Dr. Blake to get the drugs on loan from the Dundalk dispensary.

Fire at Cork.

A destructive fire broke out early on Friday morning, May 4, on the premises of the Cork Chemical and Drug Co., Patrick Street, Cork, which at one time threatened the destruction of the whole of the north side of the thoroughfare. The fire rapidly spread to the offices, which were gutted, and several adjoining shops and premises were burnt out or damaged. The fire-brigade succeeded in saving the wholesale department and the dispensing department. The iron doors between the retail and wholesale departments remained intact, a constant stream of water being played on them. The damage to the Cork Chemical and Drug Co.'s premises is covered by insurance. The estimate of the entire loss caused by the fire to all the shops and premises is placed as high as 40,000*l.*

Scottish News.

Brevities.

A "To Let" notice is displayed outside an Edinburgh suburban pharmacy.

Many chemists are now charging tinned ointments $\frac{1}{2}$ *d.* less per tin when the customer brings the tin to be refilled.

Some of the doctors on the Edinburgh Insurance panel are by no means enthusiastic over the proposed Bureau system.

At a meeting of the Perthshire Canine Club, Mr. Thomas Harley (President) agreed to give another lecture on the management of dogs.

The thinning-out of doctors is adding an increasing burden on the already overworked pharmacist, who is being asked to deal with minor cases.

A firm of cash chemists is selling off a stock of rubber sponges at 6*d.* and 1*s.* each. The sponges are from a prize cargo that was bound for Germany.

The vexed question of medical attendance to miners' dependants in the Lothian districts has been settled. They are to get medical attendance and medicine for 3*d.* per head per week.

From the subscriptions to the Dr. David Waldie memorial at Linlithgow there is a balance of 6*l.* 19*s.* 6*d.*, which has been invested in War Loan so as to provide a local school Waldie prize.

Mr. Allan L. Harley, younger son of Mr. Thomas Harley, chemist, Perth, has passed the Medical Preliminary examination held at Edinburgh University, and has entered the course there prior to joining the Army in July.

In a report submitted to the Highland Society last week, Dr. J. F. Tocher mentioned that a sample of superphosphate he had examined contained 50 per cent. of sodium sulphate, evidently due to the superphosphate being manufactured by treating mineral phosphate with nitre cake.

Edinburgh and Glasgow wholesale houses, with one or two exceptions, have issued notices to chemists and druggists that until normal conditions prevail they will charge a booking-fee of 2*d.* for all postal or passenger-train orders exceeding 2 lb. in weight. The notices are signed by practically every wholesale firm.

Wills.

MR. THOMAS CRAGG JAMES, chemist and druggist, Birkenhead, who died on February 26, left estate of the gross value of 5,862*l.* 19*s.* 1*d.*, with net personalty 978*l.* 12*s.* 3*d.* to his wife absolutely.

MR. ANDREA ANGEL, M.A., B.Sc. Oxford, and chemist of works at Silvertown, at which he was killed on January 19 (C. & D., January 27, p. 65), left property valued at 374*l.* 18*s.* 3*d.* Probate is granted to the widow.

MR. ALFRED WILLIAM MARSHALL, 30-32 Mortimer Street, W., and Pinner, food specialist, who died on February 14 aged sixty-nine years, left estate valued at 41,977*l.* 0*s.* 2*d.*, including net personalty 29,876*l.* 13*s.* 1*d.* Among the bequests are 100*l.* each to Mrs. Bamber and Miss Frigout, and to each of his other employes who have been with him for two years 20 per cent. of their wages, and an additional 10 per cent. for each year up to ten years. The residue of the property was left in trust for his wife and family.

Legal Reports.

Weights and Measures Act.—At Newmarket on May 9, Mr. Charles C. Greensmith, chemist and druggist, Soham, was summoned for having in his possession for trade use eight weights from 4 lb. down to $\frac{1}{4}$ oz., which were light. After hearing the evidence, the Magistrates took the view that the deficiencies were very small and arose from cleaning, so the summons was dismissed.

A Naphthalene Case came before Judge Atherley-Jones, K.C., at the City of London Court on May 3, when the Distillers' Chemical Supply Co., 20 High Holborn, E.C., sued John Williams & Co., Cannon Street, E.C., to recover payment in respect to 5 tons of flake naphthalene supplied. It appeared from statements made in court that defendants had bought for Russia, but owing to difficulties in the way of transit and failure to obtain export permits they could not take delivery at the proper time, hence the action. His Honour, in giving judgment, said the case was an interesting one, but having regard to all the circumstances his decision must be for 63*l.*, and costs, for the plaintiffs.

Carbolic-acid Plant.—In the King's Bench Division, Dublin, on May 8, an application was made on behalf of the plaintiffs for discovery of documents in the case in which Mr. Roderic P. O'Connor, of Monkstown, co. Dublin, civil engineer, Mr. Thomas Dillon, of Rathmines, professor of chemistry, and the Larkfield Chemical Co., Ltd., of Dublin, are plaintiffs, and Blair, Campbell & McLean, Ltd., of Govan, Glasgow, chemical-manufacturers, are defendants (see *C. & D.*, December 30, p. 47). Mr. Timothy Sullivan, who made the application, stated that an order for discovery had already been made by the Court on the application of the defendants. Mr. Justice Pim made the order now asked for.

Veterinary Surgeons Act.—At Newton Abbot on May 1, Mr. Thomas E. Sanders, Newton Abbot, was summoned, under Section 17 of this Act, for practising as a veterinary surgeon without registration. The summons was issued on information by Mr. Reginald F. Arthur, of Newton Abbot, under the authority of the Royal College of Veterinary Surgeons. Evidence was given to the effect that the defendant, a young man of twenty-five, lived with other members of the Sanders family in a house where the name-plate was "W. F. Sanders, veterinary surgeon." He had been asked to advise in regard to a dog, but evidence of his practice as a veterinary surgeon was inconclusive. It was denied that defendant had represented himself as a veterinary surgeon, and he had refused to see the dog until his brother returned. Ultimately the Magistrates found the case not proved and dismissed it, ordering Mr. Arthur to pay the defendant's costs.

Salicylic-acid Plant.—The case of the Lennox Foundry Co. v. London Chemical Works was, on May 2 and two following days, before Mr. Pollock, one of the High Court's Official Referees. The plaintiffs' claim was for 1,180*l.*, balance of 2,969*l.* for chemical plant supplied. The defendants admitted the claim subject to a counter-claim to be assessed. The plaintiffs, in April 1915, agreed with the defendants to supply plant for the manufacture of salicylic acid from sodium phenate, the plant to be delivered within twelve weeks from April 8, 1915. The plaintiffs supplied the plant, but the defendants alleged that it was not reasonably fit for the purposes for which it was required—viz., carbonating or decolorising or filtering 800 cwt. of acid per day as agreed. They alleged that the machinery was badly erected, and not in accordance with the sketch agreed upon. Some evidence was given on behalf of the defendants, upon whom the onus rested, the claim having been admitted, and the Referee went to Southall to inspect the plant, after which it was announced by counsel for the defence that as future business relationship was contemplated between the parties a settlement of the action had been agreed upon terms arranged, each party paying their own costs.

Action against the British Medical Association.—The case of Dr. Pratt and Others v. the British Medical Association (*C. & D.*, May 5, p. 36) again came before the Lord Chief Justice (Viscount Reading) in the King's Bench Division on May 7, when Mr. McCall, K.C., for the defendant Association, stated that the Ethical Committee of the Association had carefully considered the suggestion made by his Lordship, and terms had been embodied which carried out fully and loyally the suggestions made by his Lordship. The terms were that, having in view the national necessity caused by the war, all medical men should be free to give their best services to the State by attending the sick and wounded, whether civil or military. The

defendants would undertake, until the trial of the action or the termination of the war, whichever might first happen, without prejudice to their rights and contentions, in no way to interfere or obstruct the plaintiffs in the practice of their profession or attendance upon patients, and would use their influence with members of the defendant Association to secure plaintiffs full liberty to practise their profession, attend their patients, and hold consultations with other members of the profession. The Court ordered the case to stand out of the list generally, with liberty to either side to apply.

A Will Case.—In the Irish Court of Appeal on May 3, before the Lord Chancellor, Lord Justice Ronan, and Lord Justice Molony, the case of Totten v. Bonnar was argued. This was an appeal on behalf of the defendant, Margaret Bonnar, Ballymena (who died the previous day), widow, from part of a decision of Mr. Justice Barton, dated December 18 last, by which it was ordered that, upon the true construction of the will of Samuel Bonnar, druggist, lato of Ballymena, certain secured debts of the testator should be paid primarily out of the properties upon which they were secured in proportion to their respective values. By his will Samuel Bonnar directed his executors to pay, out of the proceeds of certain specified moneys, his debts, secured and unsecured. Should those specified items be insufficient, the executors were to pay his secured debts in the manner provided by the will. He gave twenty-six houses in Ballymena, which, for the most part, were freehold, to his executors, to pay the income thereof to his mother, Margaret Bonnar, for life, and on her death to convert the properties and pay the income to four representatives of the Reformed Presbyterian Church for certain purposes. He directed, however, that should the properties first mentioned for payment of the debts be insufficient, his executors should, notwithstanding the last-mentioned bequest, pay out of the income the interest of his secured debts; and gave his executors power to see these properties, and to hold the proceeds after payment, if necessary, of his secured debts upon the same trusts as affected the property. He devoted the residue of his property to his mother. The fund mentioned proved to be wholly insufficient for the payment of the debts, and the question arose as to whether the testator's mortgage debts should be paid out of the fund devised to his executors, or whether they were rateably payable out of the properties on which they were respectively charged. Judgment was reserved.

Pharmacy Acts.—At Brentford Police Court on May 3, Herman Nathanson, chemist and druggist, with the Timothy White Co., Ltd., 111 Albert Road, Southsea, was summoned by the Pharmaceutical Society, under Section 17 of the 1868 Act, for having sent by post to Lilian May, an inmate of the Isleworth Infirmary, morphine sulphate, she being a person unknown to and not introduced to him, and further with not making a proper entry in a poison-book. He pleaded guilty. Mr. Henn Collins appeared for the Society, who, he said, regarded the matter as serious. The defendant had received a letter from the woman, who was an inmate of the infirmary, and as she did not progress the medical staff made inquiries, with the result that twenty-two tubes were found under her pillow. These bore different wholesale druggists' names, and it was not suggested that all came from the defendant, but undoubtedly some did. In reply to the Chairman of the Bench as to how they knew the woman was unknown to the defendant, Mr. Henn Collins stated that the defendant had admitted it. He proceeded to point out that the woman could not by any possibility have signed the poison-book, as was necessary by law. Mr. V. M. Metivier, acting medical superintendent to the Isleworth Infirmary, having given evidence, the defendant stated that the woman wrote to him in July last, saying she was a nurse and had been a regular customer at his stores for four years, and was there in the infirmary. She was going to Egypt, and wished to have stock of the drug. He sent it to her, always addressing it to "Nurse May, Isleworth Infirmary." She had deceived him by her statements, otherwise he would never have dealt with her. The Chairman could not see why the law should not have been complied with, and added: There is a letter from your firm which they want read. I don't see that it will do any good, but it states that they consider you a qualified chemist and they have to rely upon you to carry out the law. The Act is very specific. You see the injury you have done, and I don't doubt this sort of thing is going on all over the country. Yours is a very dangerous practice, and you have no excuse. You will be fined 5*l.* on each summons, and 10*l.* 10*s.* as costs.

MEDICINE-RATIONS.—The rationing of certain medicines, like castor oil and similar other important products, is proposed in Norway.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

POPPLTON TWILIGHT SLEEP MATERNITY HOME, LTD. (P.C.). Capital 2,000£. The first directors are J. A. Bradbury and J. T. Dobson. R.O., Acomb Hall, Acomb, York.

BROTHERTON-RATCLIFFE & CO., LTD. (P.C.).—Capital 100£. Objects: Dealers in chemicals, oils, drugs, etc. The subscribers are E. Brotherton-Ratcliffe and J. C. Bosche. R.O., 4 Fenchurch Avenue, E.C.

M. W. CARMICHAEL, LTD. (P.C.).—Capital 1,000£. Objects: Manicurists, chiropodists, chemists, druggists, etc. The subscribers are H. Montague and W. David. R.O., 46 Dover Street, Piccadilly, W.

RIDDELL & SMITH, LTD. (P.C.).—Capital 5,000£. Objects: Rectifiers and methylators, wine and spirit merchants, &c. The first directors are J. J. Calder, J. C. Calder, J. Marshall. R.O., Corbiehall, Boness.

NUVOSAL CO., LTD. (P.C.).—Capital 100£. Objects: To take over and carry on the business of the "Nuvosal Co.," 41 Tothill Street, S.W. The first directors are S. Sidders and W. F. Mitchell. R.O., 41 Tothill Street, S.W. 1.

ELLIOTT HUGHES & EASTER, LTD. (P.C.).—Capital 5,000£. Objects: To carry on the business of manufacturers, importers, and exporters of and dealers in gums, shellacs, etc. The first directors are F. H. Gwynne Hughes and S. Easter. R.O., 36 Great Tower Street, E.C.

W. E. HOLDING & CO., LTD. (P.C.).—Capital 8,000£. Objects: To take over and carry on the business of W. E. Holding & Co., 14 Bardwell Street, Holloway, manufacturing chemists, manufacturers of laundry preparations and toilet-requisites, etc. W. E. Holding is the first managing director.

MORGAN DAVIS & SONS, LTD. (P.C.).—Capital 7,000£. Objects: To take over the business of a manufacturing chemist, manufacturer of surgical appliances, and chemist's sundriesman, carried on by T. C. Davis as "John Morgan Davis & Sons." Permanent governing director: T. C. Davis. Solicitor: D. A. Romain, 196 Bishopsgate, E.C. 2.

NATIONAL RESEARCH SYNDICATE, LTD. (P.C.).—Capital 50,000£. The first directors are R. G. Perry and C. F. Chance (c/o Chance & Hunt, Ltd.), K. M. Chance (c/o British Cyanides Co., Ltd.), H. McGowan (c/o Nobel's Explosives Co., Ltd.), and W. A. Tennant (9 Mincing Lane, E.C.). R.O., 220 Winchester House, Old Broad Street, E.C.

MIDDLESEX CHEMICAL CO. (1917), LTD. (P.C.).—Capital 6,000£. Agreement with George Cohen, Sons & Co., for the purchase of the business acquired by them from the liquidator of the Middlesex Chemical Co., Ltd. The first directors are B. Cohen (chairman), D. Levy (managing director), A. Wixley, L. Elton, and G. Levy. R.O., 600 Commercial Road, E.

MCADAM LABORATORIES, LTD. (P.C.).—Capital 100£. Objects: To take over the business of the McAdam Laboratories, 52 Bedford Street, W.C., and to carry on the business of manufacturers of and dealers in "Dr. Kennedy's G.H. Formula," "Zanya Indian Treatment," etc. The first directors are S. Sidders and W. F. Mitchell, 52 Bedford Street, W.C.

FILOCAIN, LTD. (P.C.).—Capital 3,000£. Objects: To acquire a special recipe for a local anæsthetic for use in dentistry, and a patent for an improved bottle for local anæsthetics, etc. Agreement between J. G. Warren and F. H. Rogers. The first directors are T. Needham, F. H. Rogers, F. B. Dehn, J. G. Warren, and W. K. Lee. Solicitors: J. H. Mote & Son, 11 Gray's Inn Square.

DIARSENOL CO., LTD.—Registered in Canada June 8, 1916, and now filed in London. Manufacturers, importers, and exporters of and dealers in chemicals, medicines, etc. Capital stock \$50,000, in \$100 shares. British address, 15 Edmund Place, E.C. 1, where G. R. Brown is authorised to accept service. Directors: E. N. Macallum, C. N. Candee, jun., J. F. Edgar, C. N. Candee, sen., and A. B. Macallum, all of Toronto.

THE NATIONAL DRUG AND CHEMICAL CO., OF CANADA, LTD.—The report for 1916 has just been issued, and shows trading profit \$271,421 (55,771£).

BANDONG QUININE FACTORY.—A second interim dividend for 1916 of 40fl. has been declared on the ordinary shares, and one of 150fl. on the founders' shares.

VENO DRUG CO., LTD.—The accounts for 1916 show a profit, including 1,374£. brought forward, of 4,740£., as against 6,921£., and after providing for income-tax, etc., and placing 1,000£. to special reserve, there will remain a balance of 1,894£., which the directors propose to carry forward.

Births.

HOWELL-IDRIS.—At St. Albans Road, Highgate, London, N., on May 2, the wife of Walter Howell-Idris, of a daughter.

LANG.—At Schoolwynd, Kilbirnie, on April 20, the wife of William Lang, pharmacist, of a daughter.

KNIGHT.—At 13 Market Place, Wincanton, on May 7, the wife of A. W. P. Knight, dispensing chemist, of a son.

Marriages.

JOHNSTON—PAUL.—At Pollokshaws Parish Church Manse, on May 7, Andrew Johnston, Gas Section Royal Engineers, eldest son of Mr. A. Johnston, jeweller, Kilwinning, to Isabella Menzies Reid, only daughter of Mr. G. Paul, master mariner, Pollokshaws.

SWINGLEHURST—NUTTER.—At St. Mary's Church, Chatham, on May 5, Warrant-Telegraphist Arthur Swinglehurst, R.N.R., son of Mr. J. Swinglehurst, chemist, Barrowford, to Dorothy, daughter of Mr. Henry Nutter, Brook Bank, Barrowford.

Deaths.

BONNAR.—At High Street, Ballymena, on May 2, Mrs. Margaret Bonnar, mother of the late Samuel Bonnar, druggist, Ballymena.

DUNCAN.—At Bryn Mawr, Pa., U.S.A., on April 11, Norman, youngest son of Mr. Joseph Duncan, Ph.C., 32 Gibson Street, Hillhead, Glasgow.

ELMER.—At Aylestone, Leicester, last week, Mr. Frank Elmer, who had a drug-store at Blaby.

FRANCIS-PHILLIPS.—At Llanwryd Wells, on May 4, Florence, the wife of Mr. Francis Phillips, pharmacist, Haverfordwest (Pem.).

GRIFFITHS.—At Bank Terrace, Welshpool, on April 19, Mr. Thos. Griffiths, chemist and druggist, aged seventy-five. He was a native of the town, and took over the business of the late Mr. Oliver Jones, now in the hands of Mr. H. Payne.

HUGHES.—At 18 Ilfey Road, Hammersmith, London, W., on April 28, Mr. William David Hughes, chemist and druggist, aged fifty-seven.

HUMBLE.—At Putney, London, S.W., on April 28, Mr. John Bawtree Humble, chemist and druggist, who was in business before 1868, aged eighty-two.

PAINE.—At Derwent House, Canterbury, on April 29, Mr. William Henry Paine, chemist and druggist, aged seventy. Mr. Paine passed the Modified examination in 1869.

PAINE.—At Newport (Mon.), on May 7, Mr. Charles Paine, Ph.C., aged seventy-five. Born at Usk, he was apprenticed to his uncle, a chemist. He went to Newport more than half a century ago, and was engaged by Mr. Cherry, who carried on business in Llanarth Street. He passed the Major examination in 1869, and upon returning to Newport opened premises on his own account, succeeding the late Mr. H. L. Williams about 1873. His wife died four years ago. His eldest son is Mr. C. B. Paine, who carries on the Westgate Pharmacy. Two sons hold commissions in the Army.

ROBINSON.—At 17A High Street, Haverhill, Suffolk, on May 6 (his birthday), Mr. Thomas Dexter Robinson, Ph.C., aged sixty-three. Mr. Robinson had been ill only two days. He was a son of Mr. J. C. Robinson, the Manor House, Stevington, Bedford, and was educated in that town, being afterwards apprenticed to John Ekins, chemist, there. He passed the Minor examination in July 1876 and the Major in December following. He started in business on his own account at Northfleet fifty years ago, and was subsequently in London, Somerset, and Biggleswade. Eighteen years ago he went to Haverhill, having his pharmacy at 17 High Street, where he became very highly esteemed, but could take no part in public affairs owing to deafness. He leaves a widow, one son, and a daughter.

SANDERSON.—On May 7, Mr. William John Sanderson, chemist and druggist, 43 High Street, Peebles, aged sixty.

SOWRAY.—At 57 Petergate, Hull, on May 2, Mr. Joseph Sowray, chemist and druggist, aged eighty. He passed

the Modified examination in 1869, and began business as a chemist and druggist in York in 1871. For many years he occupied a seat on the local Board of Guardians. He is survived by a son, Mr. Walter Sowray, who carries on the business, and two daughters.

WALKER.—At Distington, on April 27, Mr. Giles Walker, traveller for Wilson & Kitchen, chemists, Whitehaven, aged fifty-five. In the morning he left home on business, and later in the day he was found dead in a field at Distington. Death was certified to be due to cardiac syncope.

WATERWORTH.—At The Limes, Silverdale, Carnforth, on April 20, Mr. Alfred Waterworth, chemist and druggist, for many years in business in Church Street, Preston. Mr. Waterworth passed the Modified examination in 1869.

WHITTLE.—Mr. Hugh Whittle, chemist and druggist, whose death at Oldham was referred to last week, had for twenty-seven years been associated with J. & J. Thompson & Co., Ltd., chemists and druggists, and managed their Mumps establishment for a long period. He became a director of the company about five years ago.

Died on Service.

BAYES.—Died of wounds in France on April 26, Private Ernest A. Bayes, Highland Light Infantry, aged twenty-two. Private Bayes was apprenticed to Mr. D. T. Jones, dispensing chemist, Mexborough, and was afterwards assistant to Jones Bros. there until he joined up in March 1916, after several unsuccessful attempts to enlist previously. He was a plucky and cheerful man, and was highly esteemed by his employers.

BLACK.—Drowned, on April 15, William Alexander Black, troop officer, H.M. transport, eldest son of the late John S. Black, chemist, and of Mrs. Black, 9 Willowbank Street, Glasgow.

CHISLETT.—Killed in action on April 24, Captain Angus Robert Joseph Chislett, aged twenty-eight. Captain Chislett was a younger son of the late Charles Chislett, chemist and druggist, and of Mrs. Chislett, Clydesdale House, Lanark. He himself passed the Minor examination at the meeting of the Board of Examiners for Scotland in July 1911. When the war broke out he became a second-lieutenant in the Highland Light Infantry, serving so well that he was promoted to a captaincy in September 1915.



CAPTAIN CHISLETT.

COSSEY.—Killed in action on April 24, Lance-Corporal Alfred M. Cossey, Norfolk Regiment, younger son of Mr. John Cossey, dispensing chemist, St. John's, Maddermarket, Norwich, aged twenty-two.

MCCORMICK.—Second-Lieutenant M. H. McCormick, Munster Fusiliers, who was killed on April 23, was a native of Castleconnell, co. Limerick. Prior to receiving his commission in December 1915, he was with Graham & Co., chemists, Dublin.

DEY.—Killed in action, Private Adam Dey, Gordon Highlanders, aged thirty-three. He was with an Udnay chemist and druggist before enlisting.

PYPER.—Died from wounds received in action, Private Gordon Pyper, of the Gordon Highlanders, aged twenty, who prior to enlisting was serving his apprenticeship with Mr. George Reid, chemist and druggist, Aberdeen.

RICHARDS.—Private R. A. Richards, King's Liverpool Regiment, who is reported killed in action after being missing since October 12, 1916, enlisted in November 1915, whilst assistant with Mr. James Righton, chemist and druggist, Lord Street, Southport.

SEALS.—Killed in action, Sergeant John Seals, Argyll and Sutherland Highlanders, aged twenty-four. He was the son of Mr. J. Seals, 77 High Street, Berwick-on-Tweed, and served his apprenticeship to pharmacy with Mr. J. Brown, Berwick-on-Tweed. He was a chemist and druggist, having passed the Minor examination in July 1914.

WADE.—Killed on the sea on April 19, Warrant Telegraphist Jack Wade, of the Royal Navy Reserve, who was for four years with Westmacott & Co., chemists, Market Street, Manchester.

WALSH.—Much sympathy is felt with Dr. J. A. Walsh, Ph.C., Dublin, on the death of his eldest son, Second-Lieutenant M. Oliver Walsh, of the King's Own Yorkshire Light Infantry, who has been killed in action. He was educated at Belvedere College, Dublin, and served as an apprentice in his father's pharmacy, 30 Westmoreland Street, Dublin. He obtained his commission through the Officers' Training Corps, Trinity College, Dublin, and went to the Front last January.

Personalities.

MR. A. E. RICHMOND, chemist, Yarmouth, has been elected a Town Councillor for St. Peter's Ward.

MR. F. P. PEMBLETON, dispensing chemist, has been elected a member of the Nuneaton Education Committee. He is local manager to Boots, Ltd.

MR. S. E. WALMSLEY, Ph.C., 29 Surbiton Road, Kingston-on-Thames, having been appointed assistant pharmacist at St. Bartholomew's Hospital, London, for the duration of the war, has temporarily closed his business.

The funeral of the late Dr. B. H. Paul took place at Putney Vale Cemetery on Thursday afternoon, May 3, when, besides his relatives, there were present Mr. F. W. Fletcher, Mr. Thomas J. Whiffen, Mr. Edmund White (President of the Pharmaceutical Society), Mr. John Keall (one of the Council), and Mr. Woolcock (Secretary and Registrar).

HART, MAYLARD & Co. (Mr. Richard J. Hart, Mr. William B. Maylard, and Mr. Charles P. Harrison), 3 Fen Court, Fenchurch Street, London, E.C. 3, have succeeded to the firm of Edward Davis & Co., general produce and mica brokers, at the above address. Mr. Edward Davis has retired in order to devote more time to assisting the Ministry of Munitions in an advisory capacity.

MR. JAMES LESLIE, Ph.C., formerly of 12 Lower Crescent, Belfast, is now in London, having retired from Ireland after nearly half a century's residence there. Mr. Leslie was with Duncan, Flockhart & Co., North Bridge, Edinburgh, when the Pharmacy Act, 1868, came into force, and he was one of the first to pass the Modified examination in Edinburgh, as he was also one of the first to pass the Licence examination in Dublin (March 1, 1876).

A PRESENTATION was made on May 10 at Burgoyne, Burdigos & Co., Ltd., East Ham, to Mr. Sam Stoner, who has been fifty years in the business. It took the form of a cheque from the company and a gold watch from his fellow-workers. Mr. Halstead (director), in making the presentation, congratulated Mr. Stoner on his physical condition, and hoped he would have many more years of healthful enjoyment before him. Mr. Stoner briefly replied, thanking his co-workers for their kindness to him.

MISS IVY ROBERTS, Ph.C., is the fourth woman who has won the Pereira Medal since it was first awarded in 1876. Miss G. H. Wren in 1908

was the first, Miss D. F. White in 1915 the second, and Miss Ella Caird in 1916 the third. Three women winners in succession is a record of which these ladies may be proud. Miss Roberts was educated at the Victoria College, Eccles, and has been a student in the Pharmaceutical Department of Manchester University for nearly four years. She passed the Minor examination in July 1916, and the Major last month, in both cases on the first attempt. But these and the Sessional examination are not her only distinctions in that line; she passed the Intermediate examination for B.Sc. (Vict.) in June 1915, and goes in for the Final next month. We wish her good luck. She is also a worker, and spent her last summer vacation in the laboratories of Brunner, Mond & Co., Ltd., Northwich. She is proud of her training by Mr. James Grier, M.Sc., Ph.C. We note that this is the jubilee year of Mr. Hermann Woolley's distinction as Council prizeman, which was the honour before the Pereira Medal, and he was the first Manchester student to take it; and there has been none since, we are told, in this first position until Miss Ivy Roberts. Our portrait is by Mr. J. Cleworth.



MISS ROBERTS.

JAMAICA LOGWOOD.—Owing to the blockade of Germany logwood has been in strong demand in Jamaica during 1915-16, and high prices have ruled for wood both for export and for use in the local dye-factories. The circulation of money through the brisk demand for logwood has served very greatly to counteract the severe losses to the banana industry resulting from a hurricane.—*Colonial Report for Jamaica, 1915-16.*

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

PATENT LAW REFORM.

It was announced on May 9 that the President of the Board of Trade hopes to introduce legislation for amendment of the patent laws as soon as circumstances permit.

COMMITTEE ON ALCOHOL.

It was announced on Tuesday that the Minister of Munitions has received an interim Report from the Committee to consider the sources from which alcohol can be obtained for the manufacture of explosives. It is not known when the final Report will be presented. Some M.P.s have been advocating that spirits in bond should be redistilled, and this proposal has been considered.

STARCH-RESTRICTION.

Replying to Sir Philip Magnus, M.P., in the House of Commons on May 9, Captain Bathurst said the effect of the two recent Orders of the Food Controller is to prohibit the manufacture of starch from cereals except under licence. This does not prevent the use of stocks of starch manufactured before the dates of the Orders. Licences for future manufacture are being issued to a limited extent only for laundry-purposes. The stoppage of starch-production at the source will in due course prevent persons from wearing starched garments without the necessity of any special regulation.

MANIPULATIVE SURGERY.

Lord Derby received at the War Office on Tuesday, May 8, a deputation of members of Parliament on the subject of manipulative surgery, and was urged to allow this method of treatment to be adopted during the war, with the approval of medical officers in charge of hospitals, leaving the larger question of official recognition for a future decision. Lord Derby pointed out, among other objections, that legal opinion as to the liability of the War Office if anything went wrong was at variance, but promised to consider the matter further. The suggestions put before him were not such as he could immediately give any decision upon, but he would consult the law officers of the Crown as to the powers and responsibility of the War Office under the Medical Act, and would communicate subsequently with the deputation.

GLYCERIN.

The Minister of Munitions informed Mr. William Field, M.P., in the House of Commons on Monday, May 7, that he is advised that glycerin is not necessary in the saving of animal life. The hon. member had suggested that the Ministry refused veterinary surgeons a permit to obtain glycerin for medicinal purposes, and asked whether he is aware that the use of glycerin is indispensable in the treatment of animal diseases, and that probably a small quantity used in this way would be as equally advantageous as large quantities used for explosive purposes.

On Wednesday Mr. Lewis Haslam asked the Under-Secretary for War whether, considering the very great value of dripping and fats for the manufacture of glycerin and other products, he will obtain a return as to how much of these substances had been saved and sold at the Front in April, and state the present price of glycerin and the approximate price obtained for the dripping by the divisions which sell it.

VENEREAL DISEASES BILL.

We referred last week (p. 37) to the progress of this measure before the Standing Committee A. Mr. Glyn-Jones's amendment providing that no medical practitioner should supply to a patient any remedy for the treatment of the diseases, except in areas in which for the time being a medical practitioner is permitted to supply drugs or medicines to insured persons under the National Insurance Act (C. & D., April 28, p. 38), was, as we stated, defeated. Mr. Glyn-Jones said that Parliament was being asked for the first time to deprive a body of people of the right to sell certain goods and to give the exclusive right to do so to the doctors. Sir Philip Magnus said he failed to see any valid reason for altering the law which now exists with regard to the legal right of members of the medical profession to supply drugs in certain cases. There are many instances where it is of the utmost importance that the medical man should be allowed to supply a drug himself. The Bill does not interfere with rights of chemists to supply medicine. All that it does is to deprive a chemist of the right to supply remedies without prescriptions. The Committee is considering the question from a national standpoint, and not from the point of view of one section of

the community. Mr. Hayes Fisher refused to accept the amendment, saying that the Bill should not be used for the purpose of delimiting the rights of doctors and chemists. It is raising the old battle cry of "the doctor shall prescribe and the chemist dispense." If the amendment were carried doctors would be deprived of the power to dispense, and that power had been established by Parliament and common law. In his opinion, both doctors and chemists will probably lose by the establishment of the proposed free clinics, but the health of the community will improve. A better fate awaited Mr. Glyn-Jones's amendment of Clause 2 in regard to advertising remedies for venereal diseases. Clause 3 was reduced to the following definition: In this Act the expression "venereal disease" means syphilis, gonorrhoea, or soft chancre.

This is an amendment suggested by Mr. Glyn-Jones, and is an improvement on the wording originally used (see C. & D., March 10, p. 83). The Bill, as amended, passed the Committee. It is awaiting third reading, and on May 9 Mr. Hayes Fisher, who has charge of it, gave notice of several verbal amendments to Clause 2, one proposing that in Ireland and Scotland the Local Government Boards will enforce the Act.

Trade Notes.

SUMMER LINES are the subject of the Maw Page this week, the firm offering attractive and saleable articles that every chemist can sell.

LICOMINTS, manufactured by Cupal, Ltd., Blackburn, are excellent tablets for the chest and throat. They are put up in generous bottles, to retail at 10½d. per bottle, which leaves a good profit to the retailer.

FREE COUNTER-BILLS of an attractive nature are offered by Genatosan, Ltd. (British purchasers of the Sanatogen Co.), 12 Chenies Street, London, W.C., to those who send 5% orders for Sanatogen and other products.

PEPTOGENIC MILK-POWDER, originated and manufactured by Fairchild Bros. & Foster, is valuable in the feeding of infants, and is in increased demand at present. Supplies can be obtained from the agents, Burroughs Wellcome & Co., London and branches.

THE IMPORTANCE OF VITAMINES.—Vitamen, Ltd., 24 Holborn, London, E.C., have had reprinted from "Science Progress" the report of a lecture on vitamins, delivered by Dr. H. W. Bywaters, of Bristol, in 1914, a copy of which the company will send to any chemist who asks for it by postcard.

LEVER BROS., LTD., have established an export office at 2 Coleman Street, London, E.C. It is well worth a visit, because there is a magnificent showroom on the ground floor, in which the products of the works at Port Sunlight and the companies associated with Lever Bros. are displayed in well-arranged cases.

THE ELCO BRAND is a striking trade-mark now adopted by Evans Sons Lescher & Webb, Ltd., Liverpool, London, and New York (see their advertisement in this issue). The back page of the Coloured Supplement also contains an important announcement on matters of topical interest to which all buyers should give special attention.

ZOKA TOOTH-POWDER.—The White Band Manufacturing Co., Ltd., Progress Works, South Croydon, have brought out the Zoka tooth-powder which is advertised as an adjunct to Zoka tooth-paste. With opening orders of three dozen Zoka tooth-powder a bonus of one dozen is given, and this also ensures securing the same advantageous terms in the future.

RUSSIAN TRADE.—A useful booklet, entitled "The Russian Market and How to Enter it," has been published by Mr. R. A. Lenski, managing director of the Russo-British Trade Exchange, Ltd., 80 Gracechurch Street, London, E.C. 3. Those business houses who are desirous of trading with Russia should write for a copy or call at the Press Section at the Russian Exhibition, Grafton Galleries, Old Bond Street, W.

THE "STANDARD" PRICE-LIST.—Mr. Charles Philip, dispensing chemist, 23 High Street, Herne Bay, has issued the quarterly revised edition of the "Standard" retail price-list of war-affected drugs, etc., to which reference has been made in this column on previous occasions. The list, which is sold at 1s. post free, is sent out with a supplement that brings it up to the present moment. Mr. Philip invites suggestions from users of the list.

ENEMY PATENT.—Boots Pure Drug Co., Ltd., Nottingham, are applying for the suspension or a licence to use Cassella's patent No. 24652/10 "manufacture of 3:6: diaminoacridine and its derivatives." The hearing is on May 24.

Observations and Reflections.

By Xrayser II.

The Death of Dr. Paul

removes another of the few remaining links which bind pharmacy of to-day with that of two generations ago. I knew Dr. Paul, not intimately, else your most interesting story of his connection with the Pre-Raphaelite Brotherhood would not have come as a surprise, but about as well as an ordinary member of the Pharmaceutical Society can be expected to know one of its most powerful officials. The last time I saw him was just about three years ago, some months before the war broke out, when I called with a friend at his residence in Kingston Vale, and had half-an-hour's chat with him. Though physically infirm, I found that so far as mental energy was concerned "his eye was not dim nor his natural strength abated." He was keen and alert, and his comments on men and manners were as shrewd and acute as ever. He had always been a strong-minded man, and being of a masterful temperament he paid little attention to the criticism and attacks of meaner minds, as he would have classed them. Your obituary notice, I think, explains much of his indifference to current popular opinion, for a man who had such a background of experience as he had must have possessed vast reserves in his inner consciousness in which he could fortify himself against the gadfly stings of common creatures. Dr. Paul was not one who suffered fools gladly, as his apostolic namesake told the Corinthians they did, but in later years he became less and less sarcastic, and of the many who have crossed swords with him there is not one but cherishes the most kindly thoughts of the grand old warrior who has at last laid aside his armour.

The Annual Report

of the Pharmaceutical Council opens with an acknowledgment, admirable in intention but questionable in form, of the support the Council has received from members in the past year. We are told that it is owing to this support that "the position and reputation of pharmacists have been maintained at their present level." It may be true that any measure of success that can truthfully be claimed for the Council's efforts on our behalf is due to our support, but exception might fairly be taken to the assertion that either our position or our reputation has, in spite of our support, been maintained at the present or any other level by those efforts. To say that they have been *reduced* to the present level would indeed be nearer the truth. The report itself admits that as regards N.H.I. work our position is worse than it was last year, and that it is so is due mainly to the support we gave to our leaders in their acceptance of the new Tariff. If we had acted for ourselves, as the Scots did, we should almost certainly have been better off now, and I venture to think that our "reputation" would be quite as safe in our own hands as it is in the Council's. The report is equally open to criticism in several other respects, but as we are looking forward to a new Council I say no more. "Let the dead past bury its dead."

The "Difficulty in Finding the Right Words,"

which the Council so naïvely acknowledge in the case of the resolution with regard to the scheduling of diachylon, is one which we have reason to believe is not infrequent with them, though they are not always so frank about it. I must add that they have not succeeded in surmounting it in the present case, for the resolution, grammatically construed, does not say what it was meant to say. So construed it means that the substances referred to are exempted from the scope of the resolution if they are sold "*under the designation of machine-spread plasters*," whereas the intention of the Council was to exempt only plasters that are actually machine-made. Such little inaccuracies are, however, naturally incident to committee-made English, and the point is, perhaps, too fine to be raised in a court of law, though, if I am not mistaken, Mr. Glyn-Jones has before now argued several that were not more nice than it.

When the War is Over

15,000 doctors will be released from Army service and will return home to—the panel system; which is closed to most of them, and is already resented by a large number of the doctors serving under it. And some three millions of soldiers, many of them shattered by wounds or disease or nerve-shock, and many more infected by diseases against which our home defence is precarious or non-existent, will also return to civil life. What will be the result on the public health, and on our medical service? Constructive statesmen are anxiously forecasting the future and devising sweeping changes. It is proposed, for instance, to transform the Local Government Board into a Ministry of Health, and a Ministry of Health of some kind we shall surely have. It is proposed, too, that the panel system, with its capitation-fees, should give place to a salaried medical service; and it is a postulate of all the schemes of which I have heard that the present arrangement should be "overhauled," and a new settlement with practitioners be arranged. It is equally noteworthy that in none of these schemes are pharmacy and pharmacists so much as mentioned. Other "vested interests" are considered, but ours are ignored. The doctors, we may suppose, will be able to look after themselves, and we must do the same to the best of our ability. I commend the subject to the consideration of the Council that meets after the election. The crisis impending dwarfs all our domestic difficulties, and we must prepare to meet it.

Chemical Society.

PROFESSOR W. JACKSON POPE, F.R.S., presided at the meeting held at Burlington House, Piccadilly, W., on Thursday evening, May 3. Two papers were read. The first, comprising Parts I., II., and III. of *Researches on Asymmetric Nitrogen Compounds*, by Meldola, Foster, and Brightman, was read by Mr. Brightman, who explained that the work described had been carried out under the direction of the late Professor Meldola at the Finsbury Technical College, and that although no direct results had been obtained with regard to asymmetry in the compounds prepared, the work itself was of interest on account of the large field covered in attempts at their preparation, as also on account of its associations. Mr. C. Doree read a paper on *Contributions to the Chemistry of Caramel*, by Miss M. Cunningham and himself. He said that practically nothing had been added to the chemistry of caramel since 1857, chiefly on account of the nature of the products obtained in the investigations, being usually non-crystalline bodies, readily forming colloidal solution and so very difficult to purify and characterise. It was shown that on heating cane sugar to temperatures between 180° and 190° C., three dehydration products were produced—namely, earamelan, caramelen, and earamelin, representing three successive stages of dehydration. This paper dealt with the first of these—earamelan, $C_{12}H_{18}O_9$. Two alternative formulæ for this substance were given, deduced from its properties and based on the constitutional formulæ for cane sugar given by Fischer. Mr. Doree described the effects of hydrolysis and various types of oxidation upon earamelan, bringing out the relationships that existed between it and similar products derived from cellulose, humus, peat, and the like, thus bringing it within the scope of carbohydrate chemistry.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

| | |
|--------------------------------|--------------------------------|
| 20/2. "Reflex" clinicals. | 24/38. Rypophagon pills: |
| 20/65. "C" disinfecting-fluid. | makers. |
| 22/18. "Ipsyl" for rheumatism. | 26/15. Gelatine-acid cubes for |
| 21/70. "Albulol." | thirst. |
| 25/38. Apinol. | 26/22. "Easfit" trusses. |

HONDURAS SARSAPARILLA.—During 1916 the exports from Honduras to the United States amounted to 35,430 lb., against 16,023 lb. in 1915.

RHUBARB-LEAVES are not a good substitute for cabbage. A clergyman in London has died through eating them, and several members of his family were ill.



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Editorial Articles.

A False Step.

And We do further will, grant, and declare that the whole property of the said Body Politic and Corporate shall be subject to the management, direction, and control of the Council of the said Society.—*Charter of the Pharmaceutical Society.*

The whole property of, or under the control of, the Society shall be subject to the management, direction, and control of the Council, and may, under the direction of the Council, be invested in or upon mortgage of property or securities for the time being, from time to time recognised by lawful authority as proper for investment by trustees.

The property and funds of the Society, other than moneys from time to time in the hands of the Treasurer or Secretary, shall not be disposed of, or otherwise dealt with, except in pursuance of an order of the Council, signed by six members at the least, in Council assembled.—*By-laws of the Society.*

The accounts of the Central Checking Bureau, controlled by the Local Associations Executive, are not included in the Society's balance-sheet, since no part of the profits from that scheme have been diverted for the Society's use. The Local Associations Executive Committee controls the finances of the Central Checking Bureau through its Finance Sub-Committee.—*Report of the Council for 1916-17.*

In the Cartegig days of the Pharmaceutical Society there was in the body a very wholesome respect for the Charter. This was due in part to the Privy Council's refusal in 1895 to sanction by-laws framed to enforce a Minor curriculum, but the greater part of this respect arose from the fact that the Society had within it men who were there when the Charter was obtained, or officers who were familiar with the objects and purpose of the Charter and were exceedingly careful that nothing should be done to conflict with it. Times have changed, so have the men; and the above passages from the Charter and by-laws of the Society, with the paragraph from the Council's annual report, show that the present Council does things that Mr. Cartegig would not have done. In our opinion the Council has contravened its own by-laws by taking certain property out of the Council's power and placing it under the sole control of the Local Associations Executive; but we may also point out that the Executive is a Committee of the Council, and, as such, is part of the Society, so that the attempt to eliminate the Checking Bureau's finances from the Society fails. The Council has accomplished what seems to be an illegality, owing to a perverted view of its own position.

Malt-extract.

PARLIAMENTARIANS continue to show special interest in regard to malt, and last week Captain Bathurst, the Parliamentary Secretary to the Ministry of Food, had to answer numerous questions on the subject. These were practically all directed to elucidate whether or not grain is being used for making intoxicating liquors instead of bread. Captain Bathurst assured the House of Commons that—

"Practically no brewers' malt is available, but diastatic malt is still being made for the purpose of using in human foods, bread, medicines, malt-extracts, biscuits, Horlick's milk, etc. Licences are constantly granted for the use of malt for human food, especially for infants and invalids."

Two days later Captain Bathurst was asked a question about the nutritive value of barley, and in his reply he mentioned that the food-constituents (per cent.) of barley and malted barley are as follows:

| | Protein | Fat | Starch | Sugar | Fibre | Water |
|---------------|---------|-----|--------|-------|-------|-------|
| Barley... | 11.5 | 1.6 | 61.0 | 2.1 | 8.8 | 12.0 |
| Malted barley | 13.45 | 1.8 | 44.6 | 20.3 | 12.7 | 6.6 |

It is from the point of supply of malt-extract that this matter is of special interest to our readers. In our Trade Report of March 17, p. 49, we explained the position of the malt-supply and how the extract position is related to it. Now careful buyers are beginning to look

ahead in regard to their next winter's supply. We reported on April 21, p. 34, that further restrictions make it illegal, except under licence, to manufacture any further malt, to sell or deliver any malt, or for anyone other than a brewer for sale to use malt for any purpose, and Captain Bathurst is perfectly clear on the point that this does not affect the making of, *inter alia*, malt-extract; in fact, the Food Controller has granted licences to the few maltsters who make extract to continue the manufacture, and licences have also been granted to manufacturers of malt-extract, who are a more numerous body. Licences have also been granted to many manufacturers of medicinal preparations containing malt-extract. Under these licences guarantees have to be given that the supplies are for human use only—that is, *per se*, not being intended or used for brewing purposes. We understand that the licences expire on May 31, but that they may be renewed month by month, this, of course, depending upon the actual statistical situation of raw materials each month. The Food Controller is endeavouring to approximate the quantity of malt-extract required for medicinal use over a given period, and if the question should arise later as to a choice between food-stuffs and medicines there is no need to emphasise which would be sacrificed. This is the point which the Food Controller is keeping in view, and for the time being supplies of malt-extract are practically assured. Applications for licences to manufacture malt-extract for medicinal purposes have to be made to the Food Controller (Brewing Section), 18 Upper Grosvenor Street, London, W. 1. It is apparent that all who are directly interested in the extract must regard it as one of the things in respect to which the greatest care and the strictest economy have to be exercised. Obviously malt-extract and bread are in substantially the same position.

Regulation of Pharmacy.

We are indebted to Mr. Ernest Quant, Torquay, for copies of replies he has received from Council candidates to his letter on this subject (*C. & D.*, May 5, p. 51). Mr. Quant made the following propositions and asked the candidates' views on them:

(1) Every person (from apprenticeship upwards) engaged in pharmacy should be registered.

(2) The Pharmaceutical Society should do something to induce these folks to qualify.

(3) An intermediate examination might be instituted for registration as an assistant for a limited period.

We give all the candidates' replies as concisely as possible.

Mr. F. E. BILSON (Bournemouth) says (1) registration of apprentices is desirable, (2) the Preliminary examination should be passed before apprenticeship, and (3) the Minor should be divided, but he does not favour an intermediate examination.

Mr. W. H. FOWLER (Redhill) considers that (1) the Preliminary examination should be passed and the person registered before apprenticeship begins, and approves of (3).

Mr. FRANK G. HINES (York) deals with corporate trading concerns and the Pharmaceutical Society's relation thereto, and says that it should obtain some definite control over those aspiring to enter pharmacy.

Mr. ARTHUR H. JENKIN (London) favours Mr. Quant's propositions, and would bring them before the Organisation Committee.

Mr. JAMES KIRKPATRICK (London) approves, and had the same ideas in his Holborn Restaurant address.

Mr. PHILIP F. ROWSELL (Exeter) favours (1) and (2); as to (3) points out that partial qualification might be a source of great danger, but favours the examination being taken in stages.

Mr. J. RYMER YOUNG (Warrington) is in general agreement with Mr. Quant's views.

In the course of a covering letter, Mr. Quant says:

"It is useless to expect public and Government recognition as long as pharmacists engage in non-pharmaceutical work and non-pharmacists are engaged at the dispensing-counters of our pharmacies. Surely readjustment is here necessary, and the most effective way to restore order is by compulsory registration of the apprentice. Several letters received, as indeed did mine, touch upon the educational question, but discussion of that matter is a second step. Let us take one step at a time, and the first step undoubtedly is compulsory registration."

Perhaps it would be as well for everybody to understand that the Pharmaceutical Society, as the body authorised by law to examine and register persons qualified to carry on the business of a chemist and druggist, has very limited powers apart from that. Section 6 of the 1868 Act states that the examination to be passed

"Shall be such as is provided under the Pharmacy Act for the purposes of a qualification to be registered as an assistant under that Act."

This means the Minor examination, *not the Preliminary*, and the Society has been careful in continuing pre-1868 conditions to speak of the Preliminary examination as the *First part of the Minor examination*. The Society has no power to compel persons to pass the Preliminary examination before apprenticeship or to enforce registration then. A new Act of Parliament will be necessary to carry out Mr. Quant's first proposition, and it is curious that not a single Council candidate touches this point. Does any one of them favour the Pharmaceutical Council undertaking new legislation?

Quicksilver.

SINCE we referred to the position of quicksilver (*C. & D.*, March 10, p. 80) market conditions have remained much as they were, the Government requirements rendering the price of metal quite nominal. Judging from the Board of Trade Returns, the arrivals so far this year have been very light, and much less than last year, as the following figures show—viz., 865 bottles in January-March this year, against 10,124 bottles in the same period last year. Re-exports have been light also—viz., 1,744 bottles for the first quarter of 1917, against 7,511 bottles for the first quarter of 1916. Business therefore continues very difficult, while allocations are mostly confined to half the quantities asked for even against a certificate for Class "A" work. One still hears of widely divergent prices being current according to the nature of the application made, but, as already stated, no reliable quotation is to be had. We understand that where inquiries are made for Government work, backed up by a permit, orders can be placed at about 20*l.* per bottle of 75 lb., although it is believed that little is obtainable thereat, while lots in the hands of "outside" importers are quoted at 25*l.*, with supplies under close control. It has been rumoured that the arrangements in force between the Spanish Government and the firm of Rothschild will shortly expire, but no confirmation of this rumour has been forthcoming. It was recently reported that the Spanish Government would make an attempt to control and handle the output of the Almaden mines themselves under expert assistance or without a lease, but the fact that a Bill has already been laid before the Cortes in connection with a fresh lease is regarded as an indication that arrangements are intended to be made similar to those which have been in vogue for several decades past. It is probable, however, that the terms of the new lease will be considerably modified, as the following report, recently issued by the United States Consul at Seville, shows:

"The Bill submitted to the Cortes provides that bids for working the Almaden mines shall be called for within one month following the date of its promulgation, and the contract awarded two months later by a specially appointed Committee presided over by the Under-Secretary of the Treasury. The maximum price which the Treasury will pay per flask of quicksilver will be based on the average net cost of production for the last five years; the Treasury will also fix the number of flasks to be produced and the dates of delivery. The Government will turn over to the successful bidder the buildings and equipment now in use at the mines, to be returned to the Government at the expiration of the contract. The contractor must yearly expend a minimum of 30,000 pesetas (about 1,200*l.*) in investigation work, and must install electric-power and potable-water services at the mines. The Treasury will pay the contractor for the improvements made either by amortisation of 5 per cent. yearly on the works and 10 per cent. on machinery or, if preferred by the State, through expert appraisal of their real value at the time it takes charge of the improvements. The maximum life of the contract is fixed at fifteen years."

The fact that Spain has found great difficulty in regard to her imports and exports of produce has presumably something to do with her exports of quicksilver, the extent of these being apparently subject to the facilities she is able to secure in importing other goods which she is badly in need of. This, at any rate, is the opinion expressed by people conversant with Spanish policy in regard to quicksilver.

Scheduling Diachylon.

THE publication of the "Gazette" notice regarding the addition to Part I. of the Poison Schedule of "lead in combination with oleic acid or other higher fatty acids" has brought us a few comments and suggestions. The far-reaching effect of the above definition had not occurred to some chemists, one of whom points out that it includes boiled oil and lead paints. Additional articles for the list we published last week are: Dale's plaster, Indian cerate, Pott's cerate, ceratum saponis. It is possible that some proprietary articles and breast-plasters are included, although no one but the makers can be in a position to decide the point without analysis of an intricate and often unconvincing kind.

Has Glycerin been Synthesised?

"THE TIMES" published on May 8 the following statement connected with Germany's production of high explosives:

"The German Press has been supplied with a semi-official answer to alleged 'efforts of the English Press to spread the rumour that Germany has a shortage of the most important raw materials for the production of high explosives.' It is declared that the manufacture of gunpowder and explosives in any quantity has been secured. Germany is said to be producing by artificial means larger quantities of nitrogen than she imported from Chili before the war. The place of cotton in the manufacture of powder has been taken by cellulose. There is now abundance of glycerin, since Germany has succeeded in producing it, not from fats, but from other materials of which there is an unlimited supply. It is declared that for a long time past Germany has been in this respect entirely independent of foreign supplies, and it is added: 'In these circumstances not only has it been possible continually to increase the production of powder and explosives up to the present, but Germany at the present moment has reached a stage when the production is being increased to an extraordinary extent, and this expansion can be continued as far as we please.'"

It is known that glycerin is a by-product in several reactions, the yield being small and the price high. Germany has been for two years in such a condition as regards glycerin that it cannot at any price be too dear, for her munition-supplies have for some time been precarious. Apart, however, from war considerations, the production of synthetic glycerin on a paying basis would be a magnificent achievement. We presume the Germans will say more about it soon, for it is remarkable that the German technical Press has had nothing on this subject, and so far it has not been slow about German discoveries that affect the war favourably from their point of view, as an unlimited supply of glycerin would.

Society of Chemical Industry.

London Section.

THERE was a large attendance at the annual meeting of the London Section, which was held in Lyons' Birkbeck Café, High Holborn, W.C., on May 7. Mr. A. R. Ling was in the chair, and in opening the proceedings gave a report of the work of the past session, which had been prolific in papers read before the Section. During the session the new departure of informal meetings had been inaugurated and had proved a great success. The proposed federation of chemical societies had not made progress, but the subject has not been forgotten. He referred also to the newly appointed Sugar Committee (C. & D., May 5, p. 35), the objects of which are technical, and not political. The main portion of the sugar-supply of this country came from Germany and Austria before the war, and the low price of the product had resulted in the neglect of the sources of supply within the Empire. The crude methods adopted in India for making sugar result in a comparatively small proportion of the available sugar being recovered. The Committee will report to the Council of the Society and also to the Board of Trade. Mr. Ling mentioned that it is proposed on some Saturday in June to pay a visit to the Rothamstead Agricultural Experiment Station. Mr. H. E. Coley, Hon. Secretary of the newly formed Chemical Industry Club, next gave some particulars of the progress of the scheme. The Club is governed by three rules only. He mentioned also that there would be a

fresh chairman for each meeting, and that each meeting would be run by a separate Committee. Mr. T. D. Morson said that the next meeting of the Club would be on May 21, when Mr. M. C. Lamb would open a discussion on the utilisation of condemned Army boots. Dr. C. A. Keane moved a vote of thanks to Mr. Ling for his services in the chair during the past two years. This was seconded by Mr. Thomas Tyrer, who said that members frequently make appreciative remarks about the Chairman when remitting their subscriptions. The vote was carried with acclamation, and Mr. Ling replied. Mr. Morson then announced that the election of members of the Committee had resulted as follows: Professor Brame, Mr. Coley, Professor Donnan, Mr. Hancock, Mr. Ling, Mr. Macara, and Dr. Miall. Mr. F. A. Hocking, pharmacist at the London Hospital and a member of the Russian Government Committee for the purchase of drugs and chemicals, gave a description of *Russia*, referring particularly to the methods of government. The Committee upon which Mr. Hocking sits was organised by the Union of Zemstvos, bodies corresponding to the County Councils in this country. The Zemstvos have the care of hospitals in Russia, and hence were chosen as the organisation for obtaining supplies for the medical department of the Russian Army. A discussion followed.

Birmingham and Midland Section.

MR. HARRY SILVESTER presided at a meeting of this Section, held in the White Horse Hotel, Birmingham, on Thursday evening, May 3, when Sir Charles Bedford, LL.D., D.Sc., Secretary of the Association of British Chemical Manufacturers, delivered an address on *Mobilisation of British Chemical Industries for After-war Conditions*. There was an excellent attendance, and much interest was shown in the address, in which Sir Charles described the origin of the Association and the objects that it is intended to fulfil. The predominating fault in the British chemical industry before the war was, he said, individualism, and he contrasted the conditions obtaining with us with those in other countries, especially Germany, where the manufacturers were more ready to combine with the object of advancing the whole craft, and that came in where Britain left off. One of the objects of the Association is to create conditions in British industry that are less individualistic than those which prevailed. Sir Charles gave a most interesting account of the work that is going on in the Association with this object. Good progress is being made, and the getting together of men with common interests is progressing well. He showed the difference between engineers and chemists, indicating how much greater the difficulties are in regard to the latter, and in other respects. He dealt fully with the psychological aspects of the question, also with the interests of the different classes of individuals engaged in the chemical industry from master to man. Speaking in an interesting, indeed lively, manner, he made a very forcible point of the fact that in this country the practice has been for the biggest concerns to be associated together, and the results have been for good. He explained how his Association is doing the same thing for all concerned. He dealt with this in detail, and, speaking of trade processes, showed that there has been too much duplication of plant, so that the cost of production has been in many instances excessive compared with manufacturers elsewhere, and it will be one of the functions of the Association to help in securing economy in this as well as in all other respects. It will also be one of the functions of the Association to help manufacturers to work heart and soul with the Government. There will also be co-operation between teachers and manufacturers, and the representation of suitable manufactures on University Councils, so that these Councils will have better appreciation of the needs of manufacturers. Sir Charles also spoke about the characteristics of different branches of chemical industry—for example, the production of fine chemicals—and here again his indication was that co-operation of the interests of all branches in such a body as the Association will be of real value to the country as well as to the various branches of production.

The Chairman thanked Sir Charles for his address, and wished his scheme success. The discussion that followed was good. Among those who spoke were Dr. Morrell, Mr. Calder, Mr. Heathcoat, Mr. Wilson, Dr. Twiss, Mr. Mann, Mr. Alcock, Mr. Canning, Mr. Reid, and Dr. Parker. Mr. O'Shaughnessy moved the vote of thanks in an interesting speech, which was seconded by Mr. Lantsberry; and Sir Charles, in his reply, indicated that there could be no movement if the Association were not linked up with other Associations of kindred interests. He spoke in appreciation of the Society of Chemical Industry, which has an international membership, and after some appreciative remarks regarding the late Sir William Ramsay, mentioned how Lord Northcliffe had helped his Association through "The Times."

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

April Tariff Prices.

The following are the changes noted in the April list of prices of drugs and chemical appliances:

Lower: Acid. hydrobrom. dil., 1s. 8d. lb.; adeps lanæ, 3s. 4d. lb.; adeps lanæ hydrosus, 2s. 10d. lb.; calc. lact., 17s. 1b.; ext. bellad. liq., 19s. 1b.; ferri sulph. exsicc., 6½d. lb.; hydrarg. ammon. (pulv.), 9s. 2d. lb.; methyl salicylas, 6½d. oz.; naphthol, 1s. 6d. oz.; potassa sulphurata, 3s. 1b.; resorcinum, 9s. 6d. oz.; salol, 11d. oz.; sodii nitrils, 1s. 11d. lb.; sodii salicylas (cryst.), 8s. 6d. lb.; sulphonal, 3s. 10d. oz.; tab. acid. acetylsal. gr. v., 2.38d. per doz.

Higher: Acetanilidum, 4s. 1b.; acid. acetic, 1s. 5d. lb.; acid. acetic. glacial, 4s. 3d. lb.; acid. benzoic (synthetic), 3s. 2d. oz.; acid. boric. (crystals), 11½d. lb.; acid. boric. (pulv.), 1s. 1d. lb.; acid. citric. pulv., 4s. 3d. lb.; adeps benz., 1s. 11d. lb.; adeps præp., 1s. 9d. lb.; amyllum (maize), 6d. lb.; benzamina lact., 11s. dr.; borax pur. pulv., 54s. cwt.; camphora (flowers), 4s. 3d. lb.; capsulae copaibæ m. 10, 3.12d. per doz.; capsulae ol. santal. m. 10, 15.12d. per doz.; capsulae arsen. gr. i., 2.16d. per doz.; capsulae pil. ferri gr. 5 et arsen. gr. 1½ et strychn. gr. 1, 2.16d. per doz.; copaiba, B.P., 6s. 1b.; creosot. carb., 5s. 8d. oz.; dec. sarsæ jam. co. (ex concentrata) 5s. 6d. lb.; digit. fol. ang. pulv., 3s. 6d. lb.; emul. petrolei c. hypoph. B.P.C., 1s. 10d. lb.; ext. aloes pulv., 3s. 6d. lb.; ext. cannab. ind., 8s. 6d. oz.; ferri et quin. cit., 19s. 1b.; hexamina, 4½d. oz.; lin. ammon., 2s. 4d. lb.; lin. calcis, 1s. 1b.; lin. camph., 2s. 1b.; lin. chlorof., 4s. 6d. lb.; lin. sap. meth., 1s. 6d. lb.; liq. formaldehyd., 1s. 5d. lb.; liq. hydrogen. perox. B.P., 7½d. lb.; liq. plumbi subacet. fort., 6½d. lb.; magnesia pond., 4s. 1b.; mag. carb. lev., 1s. 1d. lb.; mag. sulph. (medium crystals in 28-lb. lots), 37s. cwt.; ol. oliivæ (sublime), 12s. 6d. gal.; oxymel scillæ, 1s. 2d. lb.; paraff. liq., 1s. 11d. lb.; paraldehyd., 1s. 3d. oz.; pot. tart. acid., 2s. 5d. lb.; pulv. glycyrrh. co., 1s. 7d. lb.; pulv. sodæ tart. eff., 9.00d. per doz.; sodii benz., 2s. 6d. oz.; sodii carb. exsicc., 8½d. lb.; sodii sulphis, 5d. lb.; strychn. hydrochlor., 5s. oz.; sulphur sublim., 6d. lb.; tab. Easton, 1 dr., 2.22d. per doz., ½ dr., 1.50d. per doz.; tr. hyoscyami, 6s. 8d. lb.; troch. acid. tannic., 2s. 10d. lb.; ung. bellad., 1s. 2d. oz.; ung. hydrarg., 4s. 2d. lb.; ung. hydrarg. ammon., 2s. 9d. lb.; ung. hydrarg. ammon. dil. B.P.C., 2s. 8d. lb.; ung. hydrarg. nit., 3s. 1b.; ung. hydrarg. nit. dil., 2s. 2d. lb.; ung. iodoformi, 4s. 4d. lb.; ung. picis liq., 1s. 5d. lb.; ung. resinae, 2s. 1b.; ung. sulphuris, 2s. 2d. lb.; zinci valerian., 4s. 9d. oz. Increases in prices have also been made in the following appliances: Unmedicated lint, 1-oz. packet 2.08d., 1 lb. 26.00d.; cotton-wool, 1 oz. 1.58d., 2 oz. 2.67d., 4 oz. 5.00d., 8 oz. 9.00d., 1 lb. 16.00d.; oiled silk, yellow, best quality, per yard, 35.00d.

Reports from Local Centres.

ENGLAND.

Bedfordshire.—At a meeting of the Insurance Committee on April 28, a statistical table was presented which showed that last year 106,357 prescriptions were dispensed at an average cost for ingredients and dispensing-fees of 5½d. The average number of prescriptions made up for each insured person was just under 2½.

Blackburn.—A meeting of the Insurance Committee was held on May 7, when a letter was read from the Pharmaceutical Committee, enclosing a communication addressed to the Panel Committee to the effect that, the shortage of doctors being responsible for a great strain upon medical practitioners in general, the Pharmaceutical Committee is willing to take over the dispensing for private patients of doctors at home, and suggesting that the method of payment might be at a flat-rate to be mutually agreed upon. At the same meeting it was reported that thirteen chemists and their assistants in the borough had been before the Medical Board in respect of military service. Four had been placed in the A1 class, five in B1, one in B2, two in C1, and only one had been rejected. Having regard to the urgent need there is for men for military service, it was decided not to seek exemption for any further period for five men in the A1, B1, and B2 classes. It was decided to inform the Advisory Committee that in arriving at this decision the Committee had regard only to the dispensing needs of the area, and not to the position of the employer and his business, and it was for the Advisory Committee now to decide how far such persons can be regarded as indispensable to their employers apart from dispensing requirements. It was agreed that another A1 man should be released when the Advisory Committee provided a chemist substitute in his place, as his employer had taken all reasonable steps to secure a chemist to replace him. For the month of February the area No. 4 Bureau certified that the number of prescriptions dispensed by local chemists was 13,613, and the action of the Clerk in advancing 75 per cent. of the cost was approved. The Pharmaceutical Committee gave their estimated expenses for the current year as 371., and it was agreed to grant 14l. 6s. for administration expenses for the current quarter.

Bury (Lancs.).—At the meeting of the Insurance Committee on May 1, the statistical data issued by the Lancashire Prescription Bureau (No. 4 area) relative to Bury for the quarter and the year ended December 30, 1916, of which a copy had been transmitted to the Panel Committee, was submitted. This showed that the persons for whom doctors prescribe were, in the fourth quarter of 1916, 22,363; the number of prescriptions, 14,380; total cost—ingredients, 130l. 12s. 11d.; dispensing-fees, 147l. 9s. 9d.; total, 278l. 2s. 8d.; average ingredient-price per prescription, 2.33d.; average dispensing-fee per prescription, 2.62d.; average total cost per prescription, 4.95d.; average total cost per insured person, 2.98d.; frequency per insured person, 0.6.

Kesteven.—At the meeting of the Insurance Committee on April 21, it was resolved to adopt a new form of prescription-book necessitated by the present pricing system. Payment of the full amounts of chemists' accounts as checked was authorised. The Commissioners' letter regarding the undesirability of making it a condition of exemption from military service that chemists should join a Volunteer Training Corps was received.

London.—A meeting of the Pharmaceutical Committee was held at Bank Chambers, High Holborn, W.C., on May 8, Mr. A. R. Melhuish (Chairman) presiding. Information was received that the question of the supply of glycerin for dispensing is engaging the attention of the Commissioners. A report on the checking of scripts for the month of January 1917 was received from the Central Checking Bureau, which showed that the percentage of error in the pricing is low. Mr. J. A. Thompson has decided to continue as a member of the Pharmaceutical Committee until the end of the present session. The Secretary was directed to forward to the Insurance Committee and the Panel Committee a copy of the Special Sub-Committee's report and recommendations relating to suitable substitutes for glycerin and syrup in pharmaceutical preparations. The Secretary submitted statistics relating to the checking of prescriptions for the year 1916, and gave particulars of the present position of chemists and military service in the County of London, stating that the Joint Advisory Committee is now engaged in the review of all cases of men under thirty-one years of age. These men, if not already classified, have been requested to be medically examined without delay, in order to facilitate the Committee's decisions.

Pudsey.—“The Pudsey and Stanningley News” of May 4 reports a meeting of the Farsley section of the Pudsey District Insurance Committee, Alderman Walter Forrest presiding, at which the minutes of last month's meeting came up for discussion, chiefly in regard to the following statement in the minutes:

“In the opinion of this Committee, it would be an advantage to insure persons if the doctors were empowered to make up their own prescriptions, as complaints have been heard of where the chemists are not making up the medicines in accordance with the doctors' prescriptions.”

Mr. J. W. Golightly, chemist and druggist, was one of the members present, and on the motion for the adoption of the minutes he contended that the quoted part of the minutes reflected upon chemists, and should not be allowed to pass unchallenged unless adequate proof was forthcoming of neglect or disposition of the chemists not to carry out the agreement. The member who moved the adoption of the minutes said that Mr. Wright, Calverley, chemist, had pointed out that chemists on the West Riding panel and those on the Leeds panel had a different method of mixing the medicines, whereupon Mr. Golightly explained that different Formularies are referred to. The discussion was continued at considerable length, several members participating, and Mr. Golightly spoke so forcibly and well that an amendment deleting the objectionable portion of the minute was carried by a large majority.

Sheffield.—At the meeting of the Pharmaceutical Committee mentioned in the C. & D. last week, p. 46, it was decided not to act on the Brighton and Hove Association's suggestion that a National Formulary for Insurance dispensing should be produced. Private dispensing arrangements are to stand over until more medical men have actually joined the Colours. The report of the Insurance dispensing for 1916 was presented, which showed an increase of insured persons through the influx of munition-works, with a slight decrease in the number of scripts and a large increase in the total amount of accounts compared with pre-war figures. The President reported on the steps taken by himself and the Secretary in dealing with the proposed removal of chemists for military service by substitution, etc. The matter has been brought to a satisfactory conclusion. An exhaustive report from the Central Checking Bureau for

November and December was examined and found satisfactory. The Secretary was empowered to make the necessary payments to the checking department as they fall due. The payment of the extra establishment-fee of 0.3d. has been found to work out at an addition of 5½ per cent, on the year's accounts for 1916. The payment may be expected at once. It was decided to inform the Panel Committee that if lin. alb. is ordered the B.P.C. formula will be dispensed and paid for. The meeting had before it a case of the refusal of the Committee to pay for Gamgee tissue, etc., as not on the list of scheduled appliances. It was decided to advise chemists only to supply articles contained in the official list.—A meeting of the Insurance Committee was held in the Town Hall on May 2. Mr. J. T. Appleton resigned from the list of panel chemists in respect of his business at 3 Wadsley Lane, and Miss Jessie Boulter was accepted for the supply of drugs, appliances, and medicines in Mr. Appleton's place. The following panel doctors have been called up for military service: Drs. C. H. Wilson, A. Young, R. K. Robertson, and A. A. Bissett. A Sub-Committee reported on the applications for patients to make their own medical arrangements, which have been on the increase of late. It was decided to recommend that applications be allowed as under: (1) Hospital staffs; (2) those desiring a lady doctor; (3) those desiring a homeopathic doctor; (4) seven on special grounds. The Clerk reported that he had received the decision of the Commissioners on the appeal of Miss H. E. Saxton against the decision of the Committee not to allow her to make her own medical arrangements. The Commissioners state that it is not part of their duty to revise decisions of the Insurance Committees, but to inquire if they have carried out the duties imposed upon them by the Insurance Acts and Medical Benefit Regulations. They cannot in this case find that the Committee misdirected themselves in any way, and therefore the appeal is dismissed. The following payments were ordered: for the month of February and on account of March, 990l. 12s. 3d.; payment to chemists as an additional war allowance of 0.3d. per prescription for 1916, 617l. 6s. 10d.

Somerset.—It was reported to the Insurance Committee on April 23 that for the quarter ended December 31 last 33,477 prescriptions were dispensed at a cost of 1,132l. 9s. 1d., the average price being 7.06d.

Sussex (E.).—A return submitted to the Insurance Committee by the Medical Benefit Sub-Committee shows that the number of practitioners on the panel on April 1 was 184, of whom forty-four are on military duty. The number of persons and firms on the list for supplying drugs and appliances was seventy-nine at ninety-six shops. It was reported by the Pricing Bureau that 102,677 scripts had been priced during the year 1916—the ingredient-prices amounting to 1,583l. 3s. 28d.; the dispensing-fees, including the 0.3d. war allowance, 1,255l. 17s. 6d.; total cost, 2,839l. The average price per script was 6.63d., and the frequency per insured person 2.58 scripts. The insured persons entitled to Medical Benefit on April 1 numbered 67,259.

Note.

THE NORTH-EAST MIDLAND PRESCRIPTION BUREAU, which is situated at Glossop Road, Sheffield, has just issued a report on its working for the period ended December 31, 1916, which is of interest to the twelve Insurance areas which it covers. The Town Clerk of Sheffield was appointed Clerk, and Mr. G. W. Meadows, from the Town Hall staff, as Superintendent. In addition, the present staff consists of twenty-three females, which the Commissioners think might be reduced at an early date, but the amount of work carried through by the Bureau does not warrant any hope of any early reduction. The Bureau attempted to secure a prescription-book with a loose carbon-sheet, as it is found the checking is much more readily done, but in each area the doctors insisted on a carbon-backed sheet. Eight of the twelve areas have adopted the local Formulary, which has been of great advantage to the Bureau in pricing. The net expenditure for 1916 was 2,013l. 12s. 4d. The total prescriptions priced—viz., 1,772,481—is equivalent to a cost per 1,000 of 1l. 2s. 8.65d. Of this amount 345l. 9s. 4d., or 3s. 10.78d. per 1,000, represents initial expenditure, and 1,668l. 3s., or 18s. 9.87d. per 1,000, current expenditure. The estimated expenditure for 1917 is 1,680l., and estimated scripts 1,907,000, equal to 17s. 7.43d. per 1,000. It is of interest to members of the Pharmaceutical Committees, who are not allowed to charge any expenses for attending Committees, that a charge of third-class railway fare and 10s. 6d. per day is allowed for the Joint Committee and Sub-Committees. A scrutiny of the priced scripts has been carried out for eleven areas by the Pharmaceutical Society. The check only shows errors against the chemist. The number of chemists' accounts was 6,596; number of script

forms, 1,563,945; ascertained number of prescriptions, 1,772,481.

| | Prescriptions | Adjusted Apportionment | |
|-------------------------------|---------------|------------------------|-------|
| | | £ | s. d. |
| Barnsley | 36,778 | 41 | 15 8 |
| Derby... .. | 102,217 | 116 | 2 5 |
| Derbyshire | 316,303 | 359 | 6 8 |
| Grimsby | 37,009 | 42 | 0 11 |
| Halifax | 100,670 | 114 | 7 4 |
| Huddersfield... .. | 104,321 | 118 | 10 3 |
| Lincoln | 32,611 | 37 | 0 11 |
| Lincolnshire (Lindsey) | 79,973 | 90 | 17 1 |
| Nottingham | 228,875 | 260 | 0 3 |
| Nottinghamshire | 212,661 | 241 | 11 10 |
| Rotherham | 65,830 | 74 | 15 9 |
| Sheffield | 455,233 | 517 | 3 3 |

The result of the scrutiny of prescriptions by the Pharmaceutical Society on behalf of chemists of eleven areas is as follows:

| 1916 | Value of Scripts Taken | Value of Errors Claimed | Percentage of Errors Claimed |
|------------------|------------------------|-------------------------|------------------------------|
| | £ s. d. | £ s. d. | |
| January* | 3,960 18 2 | 51 7 9 | 1.30 |
| February† | 355 10 1 | 6 1 10 | 1.71 |
| March... .. | 384 0 3 | 5 10 4 | 1.44 |
| April† | 505 10 10 | 4 6 0 | 0.85 |
| May† | 332 10 0 | 1 0 5 | 0.31 |
| June† | 439 11 10 | 1 10 7 | 0.35 |
| July† | 397 19 3 | 1 9 9 | 0.37 |
| August† | 504 5 6 | 1 11 2 | 0.31 |

Checked by individual chemists (Huddersfield):

| | | | |
|-----------------|----------|--------|------|
| January | 250 17 7 | 2 1 10 | 0.28 |
| February | 233 7 0 | | |
| March | 252 18 5 | | |

* The whole of scripts.

† Portion only.

Association Affairs.

Aberdeen.—A special meeting of the Aberdeen Pharmaceutical Association was held in Gordon's College on April 25, Mr. A. F. Dugan (President) in the chair. There was a large attendance of members, as well as of evening class students of the school of pharmacy. Mr. Dugan, in presenting the prizes to the successful competitors in the Association's examinations, congratulated them on the excellent results shown. Dr. J. F. Tocher, the examiner, gave a critical report on the papers. The prize-winners were as follows: *Botany*: 1st, Mr. F. W. F. Hendry; 2nd, Miss May R. Robertson. *Pharmacy*: 1st, Miss May R. Robertson; 2nd, Mr. Malcolm Macfarlane. *Organic Chemistry*: 1st, Miss M. R. Robertson; 2nd, Mr. A. F. Mackay. *Inorganic Chemistry*: 1st, Miss Margaret A. Brown; 2nd, Miss Jean Booth. *Practical Chemistry*: 1st, Miss Jean Booth; 2nd, Mr. Alex. F. Mackay.

Birmingham Ambulance.—A whist-drive in connection with the Birmingham Chemists' Field Ambulance was held on May 2 at Ridgeway's Café, when 232 members and their friends were present, and spent a most enjoyable evening. The arrangements were in the hands of a special Committee, the active members of which were Messrs. Short-house, Kelsey, Livingstone, and Bernstein, the last-named acting as M.C. The prizes, ten in number, were presented by Mrs. Harold Rayne. The profits are to be devoted to a fund for providing furniture, etc., for the men's mess. The movement has as its President Sir Thomas Barclay, and its Vice-Presidents are Messrs. A. W. Gerrard, Wilfred Hill, W. R. Hedges, and W. H. Whittock. Mr. Harold Rayne is Quartermaster and acts as Adjutant, and Mr. H. Rigg is transport officer. Headquarters have been secured at 8 Carr's Lane.

Bradford.—At the meeting of the Pharmacists' Association referred to last week, p. 47, the President (Mr. R. T. Silson) read a paper on *Medicine and Diet*, in which he devoted most of his attention to the dietary side of health-preservation. The therapeutic value of drugs is, he said, not of intimate concern to chemists, but they should be conversant with the value of foods and their relation to health. The food-reform diet, in his opinion, is as near perfection as could be devised. Mr. F. E. Burdett read a paper on *Chemists' Circulars* which gave his experiences of advertising. The purpose of the circular is to create new business. Circularising, if properly done, is not money wasted, but a most profitable investment. Chemists might depend on printers' stock designs if they did not consider themselves able to do anything more original, but though that is cheaper it is not nearly so effective. Again, in original work they might go to the advertising-agent, but that is added expense. He favoured

the folder over other forms of circular, but the adoption of any kind depends upon the amount to be spent and the nature of the trade. The language in the circular, above all things, must be simple, just as though one were talking to a customer in the shop. One of the most important points is to include the price of the article post free, so that no reader, however distant, would be deterred from writing because of the absence of the price. No statement must be made which the goods would not bear out, because the first sales of the chemist's small articles could not pay for advertising, and everything depended upon repeat orders and recommendations. The preparation of the matter for the printer was also explained, and Mr. Burdett showed specimens of his own circulars. The lecturers were given a vote of thanks.

Cardiff.—A meeting of the Cardiff Pharmacists' Association was held on May 2, Mr. Furnival (President) in the chair. Mr. Johnson, referring to the Venereal Diseases Bill, said he had ascertained that Mr. Cory, M.P., sympathised with chemists, and promised to give the Bill his attention when it came before the House of Commons. A discussion took place on the suggested rules for the Federation of South Wales and Monmouthshire Associations. These were accepted with the exception of the rule making a levy of 1s. per head, which was to be added to subscriptions of members of each Association. It was decided that that matter should be left to the discretion of each Association. The Secretary, in giving a report of the whist-drive, said the sum of 65l. 5s. had been realised, which is to be divided between the local divisions of the St. John Ambulance and the British Red Cross Society. The Committee was thanked, and also the ladies, for the good work they had done in this connection, and the wholesale houses who had helped the fund by giving the presents were not forgotten in the vote. In regard to the Council election, Mr. Joseph said Mr. Jenkin and Mr. Kirkpatrick are really good men and able speakers. Members were advised to support these two candidates and also the retiring members.

Exeter.—Mr. Eric Lemmon presided at a meeting of the Exeter Association of Pharmacy on May 3. It was decided to support Mr. Glyn-Jones's amendment to the Venereal Diseases Bill, and to write to Mr. H. E. Duke, M.P. for Exeter, for his support. Mr. P. F. Rowsell, President of the Devon Association, said it is very important that the rights of chemists should be safeguarded. Chemists do not wish to prescribe, nor to be associated with so-called remedies, but they must have the right to sell drugs and articles of common and everyday demand. The President said chemists are not supposed to know the therapeutic effects of certain drugs. Who was to decide that certain things asked for by customers are to be used for a particular purpose? Because a drug might be used for the treatment of venereal disease, are chemists to be debarred from selling it? The object of the framers of the Bill is to stamp out venereal disease. That object is just as likely to be achieved by preventing doctors dispensing as by prohibiting chemists from selling without a doctor's prescription. It is a wrong principle to allow the same person to prescribe and dispense. Mr. Reid said it would be unreasonable to expect chemists to find out what a customer wanted certain drugs for. It was resolved to support the candidature of Mr. P. F. Rowsell for re-election to the Council of the Pharmaceutical Society.

Great Yarmouth.—A meeting of the Great Yarmouth Pharmaceutical Association was held on May 3, Mr. T. B. Male (President) in the chair. There were present six other members and Mr. J. Shearman. A letter was read from the Pharmaceutical Society on the Venereal Diseases Bill, and the Secretary reported that he had communicated with Mr. A. Fell, M.P., on the subject. A circular from Mr. T. Hannah, Amersfoort, Transvaal, regarding pharmacy law was received, but no action was taken.

Irish Assistants.—A meeting of the Irish Chemists' Assistants' Association was held in Dublin on May 3, Mr. J. Hogan, Ph.C., in the chair. The Chairman mentioned that on two evenings each week the rooms are being utilised for educational purposes, classes being held on Tuesdays and Thursdays, from 8 P.M. to 10 P.M., in materia medica, botany, etc. About twenty of the members are attending the classes. Southall Bros. & Barclay, Ltd., have presented a set of materia medica specimens, and Fannin & Co. have given showcases for use in the Association's rooms. A vote of sympathy was passed with Mr. W. J. Dillon (Hon. Secretary) on the death of his brother.

London (S.E.).—A meeting of the South-East London Pharmacists' Association was held at Maitland House, Greenwich, on May 2, Mr. A. J. Wing (President) in the chair. The Hon. Secretary reported on the arrangements for bowling-practice during the summer, and invited members to participate in the sport. Messrs. Cherry,

Hearle, and Evans attended as a deputation from the London Ueal Lodge of Pharmacy to explain the development of "Ueal" and the advantages which that organisation offers to chemists. Each of the members of the deputation addressed the meeting, and afterwards a vote of thanks was accorded them.

Metropolitan Federation.—The remarks made by Mr. A. H. Jenkin at the meeting of the Metropolitan and District Chemists' Association (*C. & D.*, May 5, p. 47) were omitted last week from want of space. Mr. Jenkin urged the necessity of agreeing upon a concrete policy for pharmacy, after which chemists should set to work to educate the public, so that the programme would have a reasonable chance of being carried. In considering what is required, regard must be paid to the needs of the nation as well as those of chemists, but the public interest must be first. What is wanted is the recognition of the dispensing chemist as a national asset. The public could have no better protection than that obtained by having its dispensing done by qualified chemists in place of back-door dispensers. Chemists are much too modest in their claims. The finer operations of pharmacy should not be neglected in making claims to act as dispensers for the nation. The separation of dispensing and prescribing should be set forth as an ideal. Mr. Jenkin suggested that a method of subsidising technical schools throughout the country might be considered, and that the time spent in these schools should count towards a curriculum. Lectures could be instituted not only for undergraduates, but for qualified chemists, to enable them to keep up their knowledge. More payment is wanted for the professional labours of chemists. In regard to proprietary articles, he said that every secret remedy sold by a pharmacist is in direct competition with his dispensing department and his hopes of a better remuneration. Until this Augean stable is cleaned chemists will not be considered professional men. He considered that every man on the Local Associations Executive should be elected, and that it should no longer be a Sub-Committee of the Council. This would be good both for the Council and the trade. The Council could not then have it thrown in its teeth that it represents a trade monopoly.

National Association of Opticians.—A meeting of the Council was held at Manchester on April 25, Mr. R. Chalmers in the chair. The decision at a previous meeting not to allow the use after members' names of the Association's initials was confirmed. The Secretary (Mr. A. Hershberg) presented the financial statement, which was approved. Eleven new members were elected. The general meeting is to be held in Manchester on July 25. It is probable that the subscription to the Association will be raised to 12s. 6d.

Sheffield.—Mr. H. G. Williams presided at the meeting of the Council of the Pharmaceutical and Chemical Society last week, when replies from firms not on the P.A.T.A. were submitted. These were not satisfactory. The municipal hospital authorities thought the time inopportune to appoint a qualified dispenser, as the dispensing at present is undertaken by the medical staff. Mr. C. H. Hewitt moved that the Pharmaceutical Society be asked to approach the General Medical Council, with a view of having lard substituted wherever possible in official ointments by a non-food base. Mr. H. Antcliffe was deputed to give evidence to the Pharmaceutical Committee on organisation.

Society of Public Analysts.—At a meeting held on May 2 at Burlington House, London, Mr. George Embry (President) in the chair, Mr. John Webster, F.I.C., read a *Note on Opium-poisoning Cases*, in which he referred to two cases of morphine poisoning, in one of which only one dose was taken, the other being that of a confirmed drug-taker. In the first case strong reactions from the viscera were obtained, and morphine in fair quantity, whereas in the second the reactions were slight, or even doubtful. Mr. J. M. Wilkie, B.Sc., F.I.C., then read a paper on *The Determination of Unsaponifiable Matter in Oils, Fats, and Waxes*. This operation is often troublesome owing to emulsification. By adopting a definite concentration of alcohol and ether before extraction, best obtained by the use of 2N alcoholic potash for hydrolysis, the formation of emulsions may be entirely prevented, and the determination finished in thirty minutes after emulsification. The trouble experienced in the analysis of beeswax and other waxes, lanoline, etc., may be entirely eliminated by using 0.5 gram of wax and 4.5 grams of castor oil, extracting as usual, and making a correction for the unsaponifiable matter in the castor oil.

BRINE is a mineral under the Finance (1909-1910) Act, Section 20. So Mr. Justice Low decided in the High Court, London, on May 9.

Veterinary Notes.

By a M.R.C.V.S.

Dogs' Mouths.

DOGS, especially ladies' dogs, are occasionally troubled with soreness of the mouth and gums and the formation of aphthous eruptions, especially on the cheeks. There is intense heat, redness, and softness about them, with looseness of the teeth and a very offensive-smelling breath. This is a form of indigestion or gastritis, and must be treated as such (see "V.C.P.," p. 294) with the addition of gargles. The animal is unable to take solid food, hence liquids must be given, such as beef-tea and eggs and milk. Examine the teeth for irregularities, and rectify if present. Withhold all fat-producing foods and give a bone to pick daily.

Cramp in Pigs.

CRAMP is rather a common complaint in pigs. It appears to be a form of rheumatism, and should be treated as such. It is most prevalent during the colder months of the year, is caused by cold and damp, in some cases it seems to be hereditary, the animals being predisposed to it. In the treatment, consideration must be given to the age, weight, and size of the animal, as well as to the extent or stage of the disease. If the patient is a young and small animal and the disease of a recent and mild origin, a cure can be effected, but if the disease is long-standing, severe, and painful, slaughter will be preferable. In treatment do not overfeed: keep the animal warm, dry, and clear of draughts. Massage the legs, shoulders, and loins, and rub in the following liniment night and morning: Lin. capsici, aconiti, et belladonnae aa. 3j.—M. Give the following also:

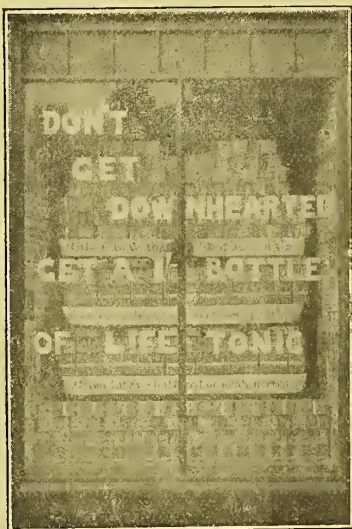
Sodii salicylat. "... ... 3iij.
Potass. iodid. "... ... 3j.
Aquam ad "... ... 3vj.—M.

3ss. night and morning.

Should the animal be constipated, give mag. sulph. 3j. daily as long as required.

Making the Situation Good.

THIS show was put in with the idea of taking advantage of a depressing situation to our armies in the field. As a matter of fact it was just after the Mons retreat, and everybody was more or less gloomy. The letters, which were very bold and cut out of white paper ("Don't get downhearted, get a 1s. bottle of Life Tonic"), were posted on the window. Advertisers, please take this tip from me; you miss a big opportunity in not supplying this sort of thing, the cost being so small for the prominence which is given. On the edge of each glass shelf were stuck strips of paper bearing



the following words printed in red:

Takes away that tired feeling.
Promotes digestion and increases appetite.
Stimulates shattered or weak nerves.

Empty cartons of the remedy, "Dr. Stewart's Life Tonic," were suitably arranged to fit the shelves, for by so doing a background was dispensed with, and so a full bold display was presented to the window-gazer.—H. A. Martin (Leicester).

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garhling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, May 10, 5.30 p.m.

THERE is little of fresh interest to report this week in the drug and chemical markets, but there is no slackening off in the upward tendency of prices generally, although changes in value are fewer. Fair arrivals of produce are still taking place in spite of rising freights, but there are certain notable omissions. In chemicals, cream of tartar has had a further sharp advance: tartaric acid is another penny dearer, and citric acid is very firm and scarce. Refined camphor is offered in limited quantities only. Aspirin has a continued easy undertone, but the salicylates, especially sodium, remain comparatively scarce. Chloral hydrate and hexamine are firmer. Menthol is flat. Quinine is a practically closed market for the moment, pending further official action. Sulphonal has sharply advanced. Among essential oils, lemongrass is firmer again; sandalwood is in good demand and dearer; caraway and camphor oils are also higher. Among the easier products are lanoline, bleaching-powder, paraldehyde, and salol. Maximum prices have been fixed by the Minister of Munitions for seeds, nuts, kernels, fixed oils, and fats. Prices for Sicilian sulphur have also been fixed, and the terms on which business can be done will be found under the paragraph on sulphur.

| Higher | Firmer | Easier | Lower |
|-----------------|------------------|------------------|---------------------------|
| Camphor oil | Chloral hydrate | Bleaching-powder | Benzoates |
| Canary-seed | Ginger (African) | Lanoline | Chillies |
| Caraway oil | Hexamine | Paraldehyde | Salol |
| Cloves | Lemongrass oil | | Sulphur (official prices) |
| Codeine | | | |
| Cream of tartar | | | |
| Mace (W.I.) | | | |
| Milk sugar | | | |
| Sandalwood oil | | | |
| Sulphonal | | | |
| Tartaric acid | | | |

Cablegrams.

BERGEN, May 3.—The cod-fishing remains insignificant, the catch amounting to 21,600,000, against 41,700,000 at the corresponding date of last year. This has yielded 31,754 barrels of steam-refined oil, against 50,053 barrels at the same date of last year. No business is reported.

BERGEN, May 10.—The cod-fishing at Finmarken is making but slow progress. The total catch is now 21,900,000, against 42,585,000 millions, and the yield of oil is 32,112 barrels, against 50,988 barrels at the same time of 1916.

NEW YORK, May 9.—Business in drugs is quiet. Guarana is lower at 90c. per lb. Genuine oil of wintergreen has been advanced to \$4.15. Mexican sarsaparilla is 1c. lower at 19c., and hydrastis (golden seal) has been advanced to \$5.75. Gentian is easier at 14½c., and belladonna-leaves are cheaper at \$1.55. Benzoates are lower; soda benzoate is now \$6.00 and benzoic acid \$6.20 per lb.

ACETANILIDE is offered at from 3s. to 3s. 2d. per lb. net on spot. Several parcels have lately arrived on this market, and there does not appear to be any shortage at present.

ACETIC ACID.—The demand for pure has fallen off owing to the conditions in the vinegar and pickling trades, and this affects the volume of business done.

ALOES.—Curaçao in cases offers at 76s. per cwt. for dull coarse and 105s. for livery.

ALON is offered at from 3s. 10d. to 4s. per lb. net as to quantity and seller.

AMIDOL is offered at from 24s. 6d. to 25s. per lb. as to quantity.

AMMONIA SULPHATE.—Export continues prohibited. Home-trade price is 15l. 10s. per ton for 24½-per-cent., and 16l. direct to farmers.

ASPIRIN.—Some dealers who are overstocked continue to offer B.P. quality at about 13s. 9d. per lb., but, as previously intimated, makers cannot realise a profit at this price, which appears to leave little room for a further decline, and the level is such that buyers can safely operate.

BALSAMS.—*Peru* is steady at 15s. 6d. per lb. net for genuine. *Tolu* is offered at 2s. net. *Copaiba* is scarce, with B.P. Central American offering at 5s., filtered Para in cases at 3s. 8d., and Maranham as imported in casks at 5s. 2d. *Canada fir* is 4s. 6d. per lb. net.

BARBITONE is offered in several quarters at 110s. per lb. net for prompt delivery.

BENZOATES.—*Benzoic acid* ex *toluol* is offered at from 27s. to 28s. per lb. net, and *benzoate of soda* at 26s. 6d. net on spot. A weakening tendency has lately been observable, as the time is approaching when the production will be substantially increased. Caution, therefore, is recommended in stocking these products.

BLEACHING-POWDER is offered at the easier rate of 27s. 6d. per cwt. in casks.

BROMIDES are firm, with granular potash offering at 6s., and crystals at 6s. 3d., soda at 2s. 9d., and ammon. at 4s. 3d. These prices show a slight improvement owing to the higher freight and transport charges.

CAFFEINE.—Pure is offered at from 50s. to 53s. per lb. net as to seller for delivery in about three weeks.

CAMPHOR (REFINED).—English refiners have only limited quantities to offer on the basis of 3s. 4d. for bells. Japanese slabs are worth 3s. 6d. to 3s. 9d.

CANARY-SEED has been in active demand, and the price has advanced to 82s. to 85s. per quarter for ordinary to good Morocco.

CAPSICUMS.—At auction 45 bags Nyasaland sold at 40s. for red and yellowish off stalk.

CASCARA SAGRADA is quiet, with spot sellers at 105s. per cwt. for two-year-old.

CASTOR OIL.—The Minister of Munitions has fixed a maximum of 80l. per ton for "castor oil," but there is no indication as to what quality this represents. The assumption is that the price applies to industrial oil, but a ruling on the question is required, as there are at least four grades, of which the highest is the medicinal quality, which on this basis would be worth at least 6l. per ton more. It must be remembered that these fixed prices do not apply to total sales or purchases aggregating five tons in any one calendar month. The charge allowed to be made for packages (4l. per ton) is much below the cost, as a case containing four 40-lb. tins costs at least 7s. 6d. per case. These prices are net, naked, ex ship, mill or warehouse in the United Kingdom, thus no allowance is made for oil distributed from such centres as London or Liverpool, which adds to the additional cost, but by the terms of the Order this is not taken into consideration. Meanwhile business is suspended.

CHAMOMILES.—Belgian flowers of fair quality offer on the spot at 340s. per cwt.

CHILLIES.—At auction prices were lower, the sales including 24 bags Nyasaland at 91s. for fair red and yellowish; of Mombasa, 256 bales offered, and 211 sold without reserve at 69s. to 70s. for barely fair; 168 bales Japanese were retired at 80s. for good bright.

CHLORAL HYDRATE is firmer at from 7s. 6d. to 8s. net in bond, and will probably go higher.

CHLOROPHYLL.—A limited quantity can be had at 17s. per lb. net.

CITRIC ACID is firm and scarce at 3s. 6d. per lb. on the spot.

CLOVES are dearer, with sales of old-crop Zanzibar up to 10½d. on the spot; sales for delivery include June-August at 9½d., closing with buyers at 10½d.

COD-LIVER OIL.—With the extremely poor cod-fishing and the limited production of new oil, holders of the 1916 crop of Norwegian medicinal oil have been asking higher prices lately, viz., from 410s. to 415s. per barrel net for spot supplies, which is a rise of from 10s. to 15s. Non-freezing Newfoundland is offered at 15s. 6d. per gallon net.

CODEINE.—Makers' price is now 22s. per oz. net for the pure crystal alkaloid, 19s. for hydrochloride and sulphate, and 19s. for phosphate, in contract quantities, with reduction clause.

COPPER SULPHATE.—With a lack of sellers, business is extremely small, the Liverpool export price being from 62l. to 62l. 10s. per ton for 98-per-cent. pure.

CORIANDER-SEED is steady at 77s. 6d. per cwt. on the spot for fair Morocco.

CREAM OF TARTAR.—The advance continues with spot sales of 99 to 100 per cent. at 230s. per cwt., and 98-per-cent. at 227s. 6d. per cwt.

CREOSOTE.—Beechwood is offered at from 12s. 9d. to 13s. per lb. net as to quantity.

CUMIN-SEED continues slow of sale at 80s. per cwt. for good sifted Morocco.

DILL SEED is quoted 40s. per cwt. e.i.f. terms on passage.

FENUGREEK-SEED is inactive, but the quotation is unchanged at 38s. 6d. per cwt. for Morocco of good quality.

FORMALDEHYDE.—Practically all business continues suspended pending further Government action, although we understand deliveries to consumers have been granted in certain instances.

GINGER.—Small sales are reported from Liverpool at 47s. per cwt. for Sierra Leone, being firmer.

GLYCEROPHOSPHATES.—Pure crystals of *sodium* offer to arrive in about three weeks at from 8s. 6d. to 12s. 6d. per lb. net as to seller; *potassium* is quoted at 11s. net.

HENBANE-LEAVES.—English growers ask 7s. per lb.

HEXAMINE is rising in sympathy with formaldehyde in the U.S., and the price now ranges from 3s. 6d. to 4s. on the spot, the lower figure being below the U.S. parity.

HONEY being classified as a food, arrivals are not now reported, but we understand the United States has of late sold a considerable quantity for export. Jamaica for March-May shipment is offered at 93l. 10s. per ton c.i.f.

HYDROQUINONE is offered at 12s. per lb. net on spot.

INSECT-FLOWERS.—Closed offer at from 170s. to 175s. per cwt. on the spot as to seller.

LANOLINE is offered at rather easier prices, including B.P. anhydrous at from 1s. 9d. to 2s. per lb. net as to quantity, and hydrous at from 1s. 4d. to 1s. 6d. net.

LEMONGRASS OIL.—Sales have been made at up to 3d. per oz. for Cochin on the spot, with holders asking 3½d. Further arrivals are unlikely for several months.

LITHIA SALTS.—Carbonate is offered at from 5s. 10d. to 6s., citrate at 6s. 6d., and salicylate at 14s. 6d. per lb. net.

LYCOPodium is flat at from 4s. 6d. to 4s. 9d. per lb. as to seller and quantity.

MACE was 1d. to 2d. dearer in auction, 17 packages West Indian selling at 2s. 1d. to 2s. 3d. for fair to good pale, and 1s. 10d. for dullish.

MAGNESIAS of all descriptions are extremely scarce and difficult to obtain of late, with consequently higher prices asked by the makers.

MENTHOL remains flat with Kobayashi-Suzuki offering at 12s. per lb.

METHYL SALICYLATE is offered at from 5s. to 5s. 4d. net as to seller.

METHYL SULPHONAL is offered at 56s. 6d. per lb. net.

MILK-SUGAR is still obtainable at from 192s. 6d. to 195s. for B.P. powder. Some further parcels from New Zealand are on the way.

MORPHINE.—Makers continue to sell for home trade requirements at 13s. 6d. per oz. net for hydrochloride powder, Di-acetyl hydrochlor. and ethyl morphine hydrochlor. have both been advanced by 1s. per oz. to 22s. and 23s. per oz. net respectively.

NAPHTHALINE.—Flake is offered from dealers' hands at 33l. per ton.

OILS (ESSENTIAL).—The following are a few current (mostly net) quotations for spot supplies: White *Camphor*, 95s. per cwt.; foreign *Caraway*, 17s.; *Clove*, 6s. 1d. to 6s. 3d.; *Copaiba*, 6s. 9d.; *Cubeb*, 29s.; foreign *Juniper-berry*, B.P., 45s., ditto wood, 9s.; *Mitcham Lavender*, 94s.; *Mont Blanc*, 16s.; *Pine pumilionis*, 24s.; *Sibericus*, 12s.; *American Sassafras*, 7s.; *Mustard*, essential, 80s.; genuine *Wintergreen*, 12s. 9d.; *Birch Tar*, 11s. 6d., crude ditto, 9s. per lb. *Geranium*, Bourbon, 14s. 3d., African, 14s. 6d.; *Spike*, French, 4s. 6d., Spanish, 2s. 9d.; *Neroli*, pure, 9s. 6d., bigarade, 9s. 6d.; *Palmarosa*, 11s.; *Paraguayan Petitgrain*, 13s. 9d.; *French Rosemary*, 2s. 9d., Spanish, 1s. 10d.; *red Thyme*, 5s. 6d. per lb. net. Genuine *Wintergreen*, 12s. 9d. to 14s.; natural *Spearmint*, 9s. per lb. *Cananga*, 18s. 6d.

OILS (FIXED) AND FATS.—The full text of the new Order issued by the Minister of Munitions in regard to seeds, oils, and fats, and the maximum prices which have been fixed, are given on p. 33.

PARALDEHYDE is offered at from 12s. 6d. to 13s. 6d. per lb. net on spot as to seller.

PEPPERMINT OIL is dull with sellers of the leading brands of American oil in tins in cases at 11s. net on spot and 11s. to arrive: H.G.H. is now 16s. per lb. London terms. Japanese dementholised oil of *Mint* is flat at 3s. 2d. on spot.

PHENACETIN.—Business is still suspended pending further Government action.

PHENAZONE.—The stocks on spot appear to be so small that buyers would do well to cover themselves, and when



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Doctors and Assistants.

SIR,—The Secretary of the British Medical Association, in the letter published by you last week, claims the right for doctors to dispense under the new Venereal Diseases Bill. Mr. Ernest Quant's letter of last week, instead of inducing lads to enter the trade, would have the opposite effect. Why not adopt the Hall examination as a dispenser's qualification, under a pharmacist's supervision, for panel and private work? SALOL. (24/58.)

National and Pharmaceutical Education.

Mr. B. G. Hough, F.C.S., M.P.S. (Sale) writes in contravention of the remarks on this matter by "Xrayser II." last week, concluding thus:

"As a reader of your journal over many years, it pains me to think that you should be lending yourself at the present moment to what looks uncommonly like an attempt to 'score off' the official body when it is making an attempt to bring pharmacists into line with what is likely to be a great step forward in national education, of which pharmacy cannot help but be a part, and, to my thinking, a most important part."

Curious; it also seems as if our issue of April 28 did not contain on p. 43 a not unsympathetic article on this subject.

How Stands Lancashire?

SIR,—"Xrayser II." is always so interesting that it is to be regretted he has not been supplied with more accurate information as regards the meeting of the Lancashire Federation and the Council election. At that meeting there was no desire at all to "be satisfied with things as they are"; in fact, one of the resolutions passed—that of the curriculum—is just about as much in opposition to "an organised attempt to perpetuate the old régime" as it is possible to be. What was done was that we advised our Associations to vote for the retiring members whose work we knew and appreciated, and leave the other candidates to the individual fancy of each pharmacist. The presence of two Councillors made not the slightest difference, and I strongly object to the insinuation. The Lancashire Federation can think for itself, and will, I hope, continue to do so. Manchester. F. W. BATES.

What are Shop-assistants?

SIR,—We have had several inquiries from members in respect to the Restricted Occupations Order (C. & D., February 24, p. 42). Our solicitors are of opinion that the Order, as drafted, includes all chemists' assistants. Mr. Glyn-Jones, however, thought that although that might be so, strictly speaking, he did not think it was intended by the National Service Department. I have made inquiries at headquarters, and have been informed that it is not intended that the term "shop-assistant" in Section xi. of the Schedule to the Restricted Occupations Order should include men lawfully and habitually engaged in dispensing medicines. Men to be so employed may therefore be engaged without the permission of the Director-General of National Service; but it is understood that where men are taken into employment on the ground that they come within this category, the onus of proof, if the engagement is challenged, will be upon the employer.

Yours faithfully,

W. JOHNSTON,

Secretary Chemists' Defence Association.

113 Temple Chambers, Temple Avenue, E.C. 4.

[This is in accordance with the advice that we have given since the Order was issued.—EDITOR C. & D.]

A Ministry of Health: a Forecast.

SIR,—There seems little doubt that a Unified Public Health Service will very shortly be established. There is great need for it. The present overlapping, duplication, and general confusion demand unification. The public services of the country are rivals in dealing with the health of the nation. Lord Rhondda seems to have made up his mind that the formation of one single Health Department will solve the problem. The Local Government Board appears to be the best authority to undertake the work, with simpler and more extended powers, and under a new name it could be the controlling body. How is this going to work? In the first place in each city, borough, or urban

or rural district there must be a Health Committee under the direct control of the central Ministry of Public Health. This Committee will be absolutely responsible for the health of the people in its area. It will delegate some of this work to others, such as all children of school age to the Education Committee, the mentally defective to the Asylums Committee, then all children under school age, the sick and permanently incapacitated, and the aged needing medical benefit and institutional care it would keep in its own hands. The cases of infectious diseases are at present under the care of the Health Committee; to these cases of small-pox, scarlet-fever, diphtheria, etc., may be added tuberculosis. In Scotland the Local Government Board has definitely made the Local Health Authorities responsible for all phthisis cases, as well as for small-pox. The Poor-law Guardians and the Insurance Commissioners would cease to exist so far as the health of the nation is concerned. The Poor-law medical service has been most inadequate, for the simple reason that no aid could be given until destitution had actually set in. There are in the country about one million simultaneous paupers, and of these probably 250,000 are ill and require medical aid even more than maintenance. About 5,000 doctors, mostly private practitioners and inadequately paid, attend to these Poor-law patients. In a few large towns and cities a special institution for the sick is provided, but in almost all the others the sick of all kinds are in the general mixed workhouse. There may be found the maternity cases, venereal and cancer cases, epileptic, senile, and incurables all herded together. Sometimes even infectious cases have been found in the same wards with the other cases mentioned; this (except in very few cases) applies to the phthisical. With the "out-door" service the Poor-law authorities have been no more successful. One-third of all our deaths from phthisis occur in Poor-law institutions. The Poor-law doctors say that they never see a case of phthisis in the stage when it could be arrested and cured. In maternity cases the Poor-law fails. Every day of the year sees the birth of at least forty children in the workhouses, and the death-rate is high, 40 to 45 per 1,000, compared with 25 amongst non-paupers. The National Health Insurance Commissioners' work has not overlapped others, so that the only alteration to be made will be in the administration. At present the N.H.I. Acts are administered under the control of the Treasury. Instead of this the Commissioners will be a Sub-Committee of the Ministry of Public Health, and all along the line the Insurance Committees will be Sub-Committees of the Health Committees. This will be a simple matter for adjustment, especially as the Insurance Act is in working order. The Advisory Committee with its varied interests represented, the Pharmaceutical and Panel Committees will still be required. The whole of the administration of the Acts dealing with the nation's health will be under the control of one Department with its Minister of Public Health, who will be answerable to Parliament. As soon as the Health Committees realise the amount of responsibility on their shoulders, the first thing they are likely to do will be to widen the scope of the National Insurance Act so that it will include all the dependants of the present insured persons. This will multiply the number of insured persons by at least four. If we do not make a very strong and serious effort to increase the rate of remuneration for N.H.I. work we are going to be in a dreadful position, with three-quarters of our business done on contract at a low rate of pay. The medical profession have the ear of Parliament, as can be seen in the Venereal Diseases Bill, and it is up to us to get the ear of Parliament with regard to the Insurance Tariff. More can be said on the subject, but enough for the present.

Harrogate.

Yours truly,

ARTHUR MORTIMER.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Jenner's Pills.

A Subscriber (20/50), noticing a recent inquiry regarding Jenner's pills (C. & D., April 28, p. 50), sends us a box of Jenner's neuralgia-pills, which he has had in stock for some years. These were a proprietary of Walters & Co., 435 New Oxford Street, London. The 1s. 1½d. box contained six pills.

The Late John Platts.

Mr. Jno. Tod (Bristol) writes in appreciation of Mr. John Platts, and commends Mr. Claridge Druce's observations upon him. Mr. Tod writes after forty-five odd years' experience, and recalls a remarkable proof of Mr. Platts's memory. Mr. Tod speaks of a time when he was manager of a shop in the West of England, and an elderly gentleman

came in while Mr. Tod was at the back of the shop. He heard the voice, and "instantly," he adds, "it flashed through my mind, 'That is John Platts's voice.' I went round the counter and said, 'How d'ye do, Mr. John Platts?' He shook hands and said, 'You have the advantage of me; but—wait a minute. Yes; forty years ago; Coventry.' 'Right first time,' I replied. An extraordinary feat in mnemonics!"

The Iodine Treatment for Boils,

which "A. B." states in last week's issue he accidentally discovered, is not new. I consider, however, that the tincture is not the best preparation to use, as it is somewhat severe on the skin, and might easily render the cure worse than the disease! I have always prescribed "Iodex" for boils and similar local infections with great success. This ointment rubbed in does not stain or irritate the skin, and the iodine is absorbed, reaching below the surface just where it is wanted to terminate the poisonous process of the infection.—A. J. Barnes (Dublin).

"Iodine is a first-rate application for subcutaneous inflammatory conditions. Boils are rather easily aborted in the early stages if 'the little pustule as it first appears is touched with pure phenol.' The frequent application of glycerin, ac. carbol. is more usual. Personally, I have used iodine vasogen with great success. Iodex would be just as useful, no doubt. It seems to me curious that doctors do not make any suggestions of this sort. I have had a long and close experience of them, but I never met one who was really fond of a rapid and radical and cheap cure."—J. P. N. (24/90).

"Some years ago a medical friend, who was very much troubled with boils at the back of the neck, told me he had often found the application of tinct. iodi to an incipient boil stopped further development. I have frequently used it with successful results, but it must be applied at the very onset; it is no use waiting to see if a boil is likely to develop before applying it. Warm water with 5 per cent. of tinct. iodi is also very useful for dressing a boil after it has burst."—J. F. Hewitt.

Legal and Miscellaneous Queries.

Wholesalers (24/52).—The Quinine, etc., Order does not apply to mixtures of quinine, phenacetin, and caffeine.

J. H. P. (19/70).—We are not acquainted with any book dealing with the manufacture of oiled silk and batiste.

J. S. S. (23/10).—We cannot say what is the composition of the cement for dolls' heads. It resembles putty somewhat in its properties.

Kô-Sam (24/19).—CATARRH-JELLY.—The formula for which you ask was given in the *C. & D.*, November 18, 1916, p. 56. It is too soon to repeat it.

J. J. C. (25/69).—You will find full particulars in regard to the further denaturing of methylated spirits in the *C. & D. Diary*, 1917, p. 217, second column.

Student (15/54).—Miss Mabel Thomson's "Apothecaries' Hall Manual" (Whittaker, 2s.) will suit you for material medica of the Assistants' examination.

B. P. C. (9/8).—(1) Use the Imperial terms given. (2) The sizes of appliances authorised by the Insurance Commissioners are given in the monthly tariff of prices, which you must adhere to.

O. R. W. (13/18).—PRESERVATION OF RUBBER GLOVES.—It is stated that complete immersion in distilled water is the best method of preserving rubber. Glycerin, which was formerly advocated as an addition to the water, is not necessary.

J. W. W. (19/29).—BREAD-IMPROVER, said to whiten "war" bread and to counteract the constipation.—This appears to be Epsom salt. You do not tell us what proportion is used, and whether it fulfils the first of the functions assigned to it.

J. M. B. (19/24).—(1) See reply to "Ph.C.," April 28, p. 50, and read the article as to poisoning sparrows in *C. & D.*, November 18, 1916, p. 45. The sale of poisons conditions have not been altered. (2) You are entitled to supply a doctor with cocaine suppositories; so is a wholesale house.

P. H. G. (19/59).—METAL-POLISH for soldiers' equipment. This polish, in the form of a dry paste, has prepared chalk as the basis, coloured with iron sesquioxide. It appears also to contain some fatty material resembling tallow, but the proportion present is much smaller than is usual in these preparations.

Quinine (25/57).—(1) Your best plan in regard to the dead-poll matter is to ask a solicitor what he will charge. The fees are not fixed, and vary according to the nature of the poll and the work done. (2) There is no Early Closing Bill. The Home Secretary's Order (see *C. & D.*, April 28, p. 34) does not exempt chemists, but the Shops Act provision as to the sale of medicine and medical and surgical appliances after closing-hour is continued by the Order, as well as the special provisions as to lighting. In fact, matters go on as they were.

T. J. J. (226/1).—(1) Acknowledgment from the Registrar of Business Names was to be expected. Write to him again. (2) Slip labels are not trade catalogues, trade circulars, showcards, or business letters; and as it is upon these that a trader using a business name which is not his true name must use his true name with the business name, it follows that you are at liberty to continue to use the old labels with the old business name. (3) Gelsemium and its galenic preparations are not scheduled poisons. (4) We published in our issue of February 10, p. 43, a letter from the Food Controller informing us that medicated lozenges are not sweetmeats within the meaning of the Sugar (Confectionery) Order, 1917; therefore that 3d. per oz. need not be the maximum price of such lozenges.

A. W. M. (13/24).—(1) STOMACH FOUNDER POWDER, administered to horses in quantities of 1 lb. mixed with gruel or stout.—This consists of Epsom salt mixed with powdered ginger, the proportion of the latter being about $\frac{1}{2}$ oz. (2) MANGE-LOTION for horses.—This contains sulphur, linseed oil, and another ingredient, possibly hellebore. One of the best applications for mange in horses is a mixture of sulphur 4 oz. and train oil 1 pint.

F. F. (20/37).—(1) WORMS IN DOG.—The worms to which you refer are *Ascaris marginalis*. As a remedy give one of the following treatments:

| I. | | III. | |
|---|--------|----------------|--------|
| Arecæ pulv. ... | 3ss. | Santonin. ... | gr. v. |
| Santonin. ... | gr. v. | Calomel. ... | gr. v. |
| Excipient. ... | q.s. | Jalap. ... | gr. v. |
| Fiat bolus. One daily on an empty stomach for three days. | | Excipient. ... | q.s. |

| II. | | Fiat bolus. To be given on an empty stomach for two or three days, and repeated in a week or ten days if considered necessary. | |
|----------------|-----------|--|--|
| Santonin. ... | gr. v.-x. | | |
| Ol. ricini ... | 3j.-3ij. | | |
| Misce. | | | |

(2) Whiting's "Aids to Medical Diagnosis" (2s., Baillière, Tindall & Cox).

E. A. B. (25/3).—ESSENCE OF CINNAMON AND QUININE.—The following is from "Pharmaceutical Formulas";

| | |
|---------------------------|----------|
| Ol. cinnam. ver. ... | gtt. vj. |
| Spt. rectificat. ... | 5ij. |
| Tr. quinin. ammon. ad ... | 3j. |

A teaspoonful for a dose.

J. J. K. (23/72).—ANTISEPTIC LIQUID DENTIFRICE:

| | |
|---------------------|-------------|
| Ac. carbolici ... | 3iss. |
| Acet. aromat. ... | 5ij. |
| Ol. lavand. ... | ℥℥. |
| Ol. cinnamom. ... | ℥℥xv. |
| Pulv. cocci ... | 5ss. |
| Pulv. quillaia ... | 5iv. |
| Spt. vini rect. ... | |
| Aquæ ... | aa. 3xiiss. |

Macerate seven days, filter, and make up to 25 oz. with spirit and water equal parts.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," May 15, 1867.

British Pharmacopœia, 1867.

The remodelled and improved Pharmacopœia, edited by Professor Redwood and Mr. Warington, seems to give general satisfaction, and we have every reason to believe that it will rapidly supersede the four Pharmacopœias that are now in use in the United Kingdom. We propose in these pages to publish short essays by able writers on the new and improved preparations of this work, and upon certain special features by which it is distinguished from the Pharmacopœias hitherto employed. The information that may be thus gradually conveyed to our readers will be more minute and practical, and better adapted for the mental digestion of busy men, than would be imparted by any systematic review of moderate length.

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" Acid. Tannic, P.B., 6 lbs. @ 2/6 lb.
" Belladonna, B.P.C., 6 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.
*Glycerin, Boracic, P.B., 6 lbs. @ 1/8 lb.
" Pepsin, Acid, P.B., 1 lb. @ 3/6 lb.
" Plumbi Subacet., P.B., 6 lbs. @ 2/6 lb.
Guaiaecol Carb., 1 lb. @ lb.
Guaiaecol, pure, 1 lb. @ lb.
Gum Acacia sorts, 3 cwt. @ 75/- cwt.; 1 cwt. @ 80/- cwt.; 7 lbs. @ 10d. lb.; English Ground Powder, No. 1, 1 cwt. @ 140/- cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/2 lb.
Gum Benzoin, Sumatra, 84 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.
Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.
Gum Guaiac, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.
Gum Juniper, 14 lbs. @ 1/- lb.
Gum Thus Elect., 2½ cwt. @ 48/- cwt.; 28 lbs. @ 52/- cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 10/- lb.; 1 lb. @ 11/- lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/9 lb.
Heliotropine, 1 lb. @ 30/- lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.
Hexamethylenetetramine, 7 lbs. @ 3/11 lb.; 1 lb. @ 4/3 lb.
Honey, Pale Set, 28 lbs. @ 1/1 lb.
Hydargyrum, P.B., 10 lbs. @ 7/6 lb.; 1 lb. @ 7/10 lb.; Ammon., 28 lbs. @ 8/- lb.; c. Creta, 28 lbs. @ 2/6 lb.; Iodid. Rub. 28 lbs. @ 12/8 lb.; Oxid. Rub., 28 lbs. @ 8/- lb.; Perchlor., Lump, 28 lbs. @ 7/9 lb.; Subchlor. 28 lbs. @ 7/6 lb.; Sulph. c. Sulph., 28 lbs. @ 7/- lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.
Hydrokinone, 1 lb. @ 16/- lb.

Ichthylol Ammon. chemical equivalent: Ammon-ichthosulphonas, B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/10 lb.
" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
" Buchu Conc., 1 to 7, 6 lbs. @ 2/11 lb.
" Calumbæ Conc., 1 to 7, 6 lbs. @ 1/3 lb.
" Caryoph. Conc., 1 to 7, 6 lbs. @ 1/4 lb.
" Cascarilla Conc., 1 to 7, 6 lbs. @ 1/7 lb.
" Cinchona Acid, 1 to 7, 6 lbs. @ 1/11 lb.
" Gentiana Co., 1 to 7, 6 lbs. @ 1/4 lb.
" Quassia Conc., 1 to 7, 6 lbs. @ 1/- lb.
" Rhei Conc., 1 to 7, 6 lbs. @ 1/10 lb.
" Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 2/11 lb.
" Senegæ Conc., 1 to 7, 6 lbs. @ 2/8 lb.
" Valeriana Conc., 1 to 7, 6 lbs. @ 2/10 lb.

Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10 lb.
Iodoform Pulv. B.P., 7 lbs. @ 18/- lb.; 1 lb. @ 18/6 lb.
Iodum, resab. B.P., 7 lbs. @ 14/11 lb.; 1 lb. @ 15/8 lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/8 lb.; sifted, 2/- per lb.

Lapis Pumicis, fine powder, 2 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 18/- cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, Sticks, 1 cwt. @ cwt.; 28 lbs. @ 2/3 lb.; 7 lbs. @ 2/4 lb.
*Lin. Aconitii Meth., 5 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.
" Bellad. Meth., 5 lbs. @ 8/8 lb.; 1 lb. @ 9/- lb.
" Camph. P.B., 9 lbs. @ 1/3 lb.
" Sapo Meth., 9 lbs. @ 1/4 lb.
" Tereb. Acet., B.P., 5 lbs. @ 1/3 lb.
Linseed c. Oil, Crushed, 3 cwt. @ 44/- cwt.; 1 cwt. @ 46/- cwt.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 1/4 lb.; 1 lb. @ 1/7 lb.
" Ammon. Aromat., 6 lbs. @ 11d. lb.
" Antim. Chlor. Pure, 8 lbs. @ 10d. lb.
" Arsenicalis, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.
" Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
" Bismuth. P.B., 6 lbs. @ 1/7 lb.
" Copaiba Buchu et Cubeb, 5 lbs. @ 3/6 lb.; 1 lb. @ 3/3 lb.
" Easton, p.s. 1-3, B.P., 1 lb. @ 5/- lb.
" Ferri Dialysatus, 6 lbs. @ 1/7 lb.
" Ferri Iod. p.s., 1-7, 1 lb. @ 7/3 lb.
" Ferri Perchlor. Fort., P.B., 7 lbs. @ 6d. lb.
" Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/7 lb.
" Hamamelidis, B.P., 6 lbs. @ 1/4 lb.
" Hypophosph. Co. p.s., B.P.C., 1 lb. @ 4/1 lb.
" Iodi Fort. B.P., 5 lbs. @ 7/4 lb.
" Morphine Acet. or Hydrochlor., P.B., 6 lbs. @ 4/3 lb.
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" Plumbi Subacet., P.B., 7 lbs. @ 7d. lb.
" Prunl Vrg. p.s. 1-7, 5 lbs. @ 2/10 lb.
" Rhæodol pro Syr., 1 to 7, 5 lbs. @ 2/9 lb.
" Rhei, p.s., 1-7, 6 lbs. @ 3/2 lb.
" Santali Co., 1 lb. @ 5/6 lb.
" Sennæ Dulc. 6 lbs. @ 1/9 lb.
" Sennæ pro Syr. 1-7, 6 lbs. @ 3/5 lb.
" Strychnina Hyd. P.B., 6 lbs. @ 2/2 lb.
" Toluid. pro Syr. 1-7, 6 lbs. @ 1/11 lb.
" Trinitrini, B.P., 1 lb. @ 7/3 lb.
Litbia Carb. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.
" Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.
Lycopodium, 7 lbs. @ 7/9 lb.

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Mag. Calc. Pond., 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.
Mag. Carb. Pond., 7 lbs. @ 11d. lb.
Mag. Carb. Levis., 1 cwt. @ cwt.; 7 lbs. @ 1/3 lb.
Mag. Cit. Gran., 28 lbs. @ 1/5 lb.; 6 lbs. @ 1/6 lb.
Mag. Sulph., fine druggists, B.P., 1 cwt. @ 23/6; 28 lbs. @ 3d. lb.
Manna, Flake, 14 lbs. @ 6/- lb.; 7 lbs. @ 6/2 lb.; 1 lb. @ 6/9 lb.

Menthol, dry white cryst., 60 lbs. @ 12/10 lb.; 5 lbs. @ 13/3 lb.
*Mist. Sennæ Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb.
Morphine Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 14/6 oz.; 16 oz. @ 14/9 oz.; 8 oz. @ 15/- oz.; 1 oz. @ 16/- oz.; Pns. Præcip. Bimeconate or Tart., 1 oz. @ 19/- oz.
Morphine Diacetyl., 4 oz. @ 2/- oz.; 1 oz. @ 26/6 oz.; Hydrochlor., 6d. per oz. less.
Myrrh, Gum, English Ground, 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/2 lb.

Napthalene, Candles, 7 lbs. @ 8jd. lb.
Nux Area, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 80/- cwt.; 7 lbs. @ 9jd. lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/0½ lb.
Ol. Anethi Ang. B.P., 1 lb. @ 30/- lb.
Ol. Anisi, E.L., 66 lbs. @ 3/8 lb.; 16½ lbs. @ 4/- lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lb.
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Ol. Gerani Gall. Opt., 1 lb. @ 28/- lb.; 81 o.s. bts. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Tuss.; 1 lb. @ 15/- lb.; 4 ozs. @ 1/6 lb.
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Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 11/3 gall.; 2 gall. tins @ 12/3 gall.
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Ol. Rosmarini, Coml., 28 lbs. @ 2/3 lb.; 9 lbs. @ 2/6 lb.; B.P., 9 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 52/6 lb.; 1 lb. @ 53/6 lb.
Ol. Sassafras, genuine, 28 lbs. @ 3/10 lb.; 1 lb. @ 4/5 lb.
Ol. Theobroma, B.P., 8-oz. tabs., 28 lbs. @ 2/2 lb.; 7 lbs. @ 2/4 lb.
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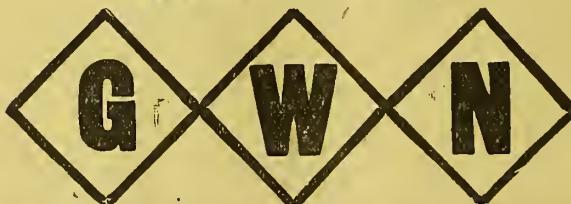
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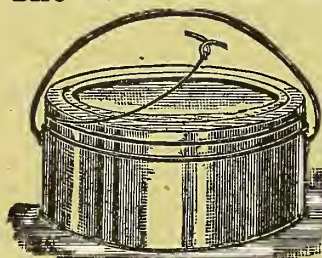
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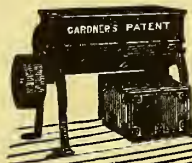
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Fig. 1354.

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| Each ... | 6 6 | 7 0 | 8 0 | 8 6 | 10 0 | 11 6 | 12 6 |

| | | | | | | |
|--|-----|-----|-------|---------|---------|-------------|
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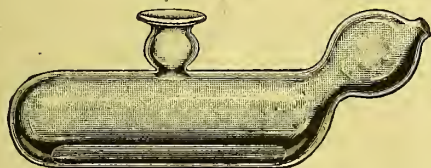
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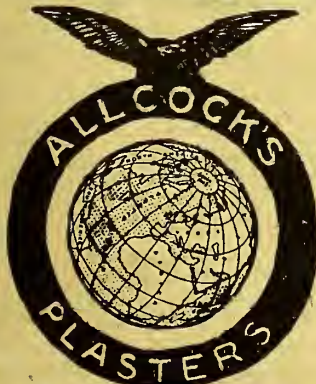
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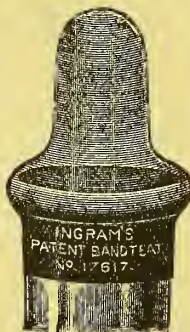
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| No. 4706. 2 oz. (about) ... | Doz. 17/9 |
| " 4707. 4 " (as illustration) ... | 32/6 |
| 1/2 pints, round bottles, in bulk ... | 40/- |
| 3/4 pints, round bottles, in bulk ... | 78/- |
| 1 pints, round bottles, in bulk ... | 150/- |

"STAR" BRAND.

No. 1497.

No. 1496. 2 oz. (about),
11/- doz.No. 1497. 4 oz. (about),
19/6 doz.**RECENT
TESTIMONIAL.**

"Many thanks for
Eau de Cologne
received. It cer-
tainly is the best
I have used, and I
am glad we are
not dependent on
another country for
that most refreshing
of Perfumes."

**THE
IMPERIAL.**No. 4692. 2 oz. (about),
17/- doz.No. 4693. 4 oz. (about),
30/- doz.**RELIABLE
QUALITY.**

Nos. 4692/3.

A GREAT FAVOURITE.

No. 4626. Decorated tins, 5/3 doz.; 60/- gross.

FLORAL HAIR CREAM.**A NON-
GREASY
HAIR
FIXER.**No. 4619.
5/- doz.No. 4620.
10/- doz.**THE MDME. ST. CROIX'S
HENNA SHAMPOO POWDER.**

Leaves the hair bright after use.



No. 4618/7.

7 Packets in Box. 8/- per doz. boxes.

Customer's own Name FREE on 3-doz. boxes.

HOVENDEN'S SPECIALITIES.

TOILET AND BATH SOAPS AND CRYSTALS.
MEDICATED SOAPS, PINE TAR, MILK OF SULPHUR, &c.
COMPACTE Poudre PARISIENNE (BRUNETTE, &c.).

SWEET LAVENDER (MAUDE MILLETT BRAND).
IMPERIAL BATH CRYSTALS.
THEATRICAL COLD CREAM (The Make-up Remover).

SPECIAL QUOTATIONS ON APPLICATION.

SUBJECT TO 2½ PER CENT. DISCOUNT.

R. HOVENDEN & SONS, Ltd.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 (3 lines).
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No.: 6260 London Wall (2 lines).

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

LONDON.

DR. J. COLLIS BROWNE'S CHLORODYNE

Revised Prices and Terms :

OCTOBER 1915.

| | | | | | | | |
|-----------------------|------|------|------|-------------|-------------|-------------|--------------|
| Size | | | | 1/3 | 3/- | 5/- | 12/- |
| Minimum Retail Price | | | | 1/2 | 2/10 | 4/9 | 11/6 |
| PRICE TO TRADE | | | | 11/9 | 29/6 | 48/9 | 117/6 |
| (Per Dozen) | | | | | | | |

Discount: 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged 3d. on £2 parcels or under, and 1d. for each extra £1 worth, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms.

Dr. J. Collis Browne's

Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,
117 Union Street, S.E.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MAY 12, 1917

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of aerial advertisements), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED THE MONEY IS TELEGRAPHED at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3317 Central (3 lines). Telegraphic Address: "Chemists Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!



There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.'

Everybody in the drug-trade knows that only *bona-fide* paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—PICCADILLY (Near).—For immediate Disposal, high-class Dispensing and Retail Business; returns about £1,200; *gross profit* between £650 and £700; the business is known to us, and we can recommend it; valuation terms.

2.—LONDON, S.W.—Very old-established Business; held by vendor many years, now retiring; returns between £850 and £900; *profit above the average*; first reasonable offer will be accepted.

3.—LONDON, W. (Main Thoroughfare).—Death vacancy; lock-up Pharmacy; situate in main thoroughfare; attractive shop and good stock; returns about £1,000; *profits above the average of Retail trade*; terms, valuation of stock and fixtures.

4.—LONDON (Southern Suburb).—Medium-class Family trade; well established; turnover averages £925; *gross profit* £355; comfortable residence; rent £45; sub-let £13; no near opposition; price £400, or valuation of stock and fixtures.

5.—KENT (Good-class Suburb).—Established Business; returns upwards of £1,400 yearly at fair prices; attractive shop, double-fronted; well-selected stock; rent £50 yearly; price £900.

6.—LONDON (Northern Suburb).—Situate in main shopping thoroughfare; well-established Business; increasing income; returns between £1,000 and £1,100; *profits exceed the usual rate of middle-class business*; well-fitted shop and comfortable residence, with garden; price £600.

7.—WALHAM GREEN STATION (Within Easy Distance of).—Ready-money Retail; returns upwards of £1,000 per annum at fair prices; *net profit estimated* at £300; price £750, about the value of stock and fixtures.

8.—MIDDLESEX.—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern.

9.—HEALTH RESORT (Within Easy Reach of London).—Established Business; capital situation; returns, under management, about £12 weekly; scope for development under personal supervision; attractive, double-fronted shop, with comfortable residence attached; price £250.

10.—DEVONSHIRE.—For Disposal through death, Family and Dispensing Business; returns between £400 and £500; rent £38; no immediate opposition; price £175.

11.—SUSSEX.—For immediate Disposal, well-established Business returning between £700 and £750; *profits about 50 per cent.*; commodious premises; rent £40 yearly; new lease will be granted; price £220; illness cause of sale.

12.—NORTH OF ENGLAND (Seaport).—Ready-money Business, suitable for qualified or unqualified; established many years; returns £1,200 (present rate); *net profit about* £450; rent moderate; price £750.

13.—HANTS.—Mixed Business; returns under assistant over £800 yearly; *net profit* £300; full investigation invited; reasonable offer would be accepted.

14.—SURREY.—Good-class Retail and Dispensing Business, with Optical connection, in select residential district; returns about £2,500 per annum; terms, valuation of stock and fixtures, and sum for goodwill to be agreed equitably.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

PARSON C. BAKER

(Pharmaceutical Chemist),

Trade Valuer & Transfer Agent.

Recommended by The British Drug Houses, Ltd.; Messrs. Messager & Co.; Barclay & Sons, Ltd.

Valuer to the Association of Manufacturing Chemists

1 Mountfield Road, CHURCH END, FINCHLEY, M.
Tel No.: Finchley 812

BATTAM & HEYWOOD

(ESTD. 1837.)

**CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS.**

Balance Sheets Prepared. Books Audited.

3 DAVIES STREET, BERKELEY SQUARE, W.

Telephone: GERRARD 2169.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—DEVON (Market Town).—Good-class Retail, Agricultural, and Photographic Business, under management and scope for increase; returns average £1,300; principal did £1,500; main road position; splendid premises; fully stocked; price simply valuation, about £900.

2.—SOUTHEAST-ON-SEA.—Very profitable Light Retail, few patents; present returns £12 weekly under manager; will do £25 to £30 in season; fine main-road position; good house attached; price £250, or £50 and valuation; strongly recommended.

3.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position; well stocked; price for prompt sale, £400 cash; strongly recommended.

4.—YORKS.—First-class Retail and Dispensing Business, pleasantly situated; easily worked; returns over £900; net profit £500; good house and Pharmacy; scope for increase; price; valuation about £650.

5.—LONDON, N. (13 Miles Out).—Middle-class Retail and Dispensing; pleasantly situated; main-road position; returns £1,300, including £250 Dental; net profit nearly £500; modern house, bathroom, and large garden; low rent; books properly kept; price £600, or £150 and valuation; partnership arranged.

6.—LONDON, S.W.—Profitable Cash Suburban Retail; entirely under manager; present returns between £800 and £900; plenty of scope; rent £50, let off £26; well stocked; main-road position; price £20 and valuation, about £350; manager called up.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

FOR SALE.

CHECK-PRINTING National Cash Register (second-hand) for sale, with all latest improvements; adds total and prints every sale. Write to F. Mills, 17 Albert Road, Brighton.

4 OZ. Phenazone Tabs., 5 gr., 2s. 11d. oz.; 7 oz. Phenazone Pulv., 3s. 3d. oz.; 1 doz. 2s. 6d. Onalite Foot Powder, 7s. 6d. all; 16 lb. Dextrine, 11s.; 4 oz. Sodæ Benz, 7s. 6d.; 8 oz. Bismuth Subgallate, 5s.; 1 lb. Bismuth Trinit., 10s.; 2 doz. Jap. Air Pillows, 9s.; 5 gross "One and All" Flower Seeds, assorted, 10s.; 5 oz. Hyd. Iodid. Rub., 5s.; 12 oz. Menthol XL, 9s.; 4 lb. Cera Flav., 7s.; 1 doz. 5 ft. length Douche Tubing, new, 6s. 6d. "B." Chemist, 97 Borough High Street.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BIRMINGHAM.—Small Business for Disposal; lock-up; low rental; good profits; serious illness cause of sale. Apply, 219/39, Office of this Paper.

KENT COAST.—Sound Business for £50 down, balance £150 by easy instalments; situated main street; splendid scope; well fitted in mahogany; sure living at present; excellent after the war; rent £40; house, eight rooms; side entrance. 121 High Street, Margate.

MIDLANDS.—Owing to death of proprietor, excellent Retail and Dispensing Business, with Wine and Spirit licence, in healthy, flourishing country market town; a prosperous business for 50 years, and still open to development; modern premises with good house; well-fitted shop; satisfactory lease; an exceptional opportunity to immediate buyer. Apply, Mrs. G. Heaton, Ripley, Derbyshire.

WEST END.—Most desirable opportunity occurs of acquiring a first-class Dispensing Business prominently situated in one of the best residential centres; well established and producing a clear net profit of £700 yearly; excellent premises; scope for considerable increase; price £1,100; fullest investigation courted; references exchanged. Apply, "Major" (231/30), Office of this Paper.

YORKSHIRE.—Good-class Suburban Business; old-established; healthy neighbourhood; splendidly situated; easy to work; an unique opportunity for client looking for a sound business; immediate disposal; bare valuation; a bargain. Apply 225/32, Office of this Paper.

FOR IMMEDIATE SALE.—Chemist's Business in thickly populated district of Everton, Liverpool; rent £38 and rates; good living accommodation. For further particulars apply, Parkin S. Booth, F.A.A., Accountant to the Association of Manufacturing Chemists, Ltd., 2 Bixteth Street, Liverpool, and 32 Kimberley House, Holborn Viaduct, London, E.C.

OLD-ESTABLISHED Drug and Sundries Business; Newcastle-on-Tyne; suitable for lady or gentleman; working-class locality; well fitted and stocked; proprietor retiring through age and bad health; to an immediate purchaser £70. Apply, 230/6, Office of this Paper.

VALUATION or best offer for immediate Sale; Family and Dispensing Business in good locality near Liverpool; if not sold must close, as Manager called up; turnover about £700 under management; could be increased; growing neighbourhood. Apply, 225/34, Office of this Paper.

BUSINESSES WANTED.

SMALL Shop required by young Chemist with little capital; in or around Manchester. Reply, "Chemists" (25/68), Office of this Paper.

WITH a view to purchasing a suitable Business for cash when hostilities cease, Advertiser will be pleased to consider particulars of Business for Sale in good market town in or near to Lancashire or Cheshire. Apply, 228/34, Office of this Paper.

PREMISES TO LET.

SHOP AND PREMISES, WEST END.—Chemists' for many years; vacant at June owing to death of proprietor; good market position; rent £130 on lease; part let off; no premium, no fixtures. Apply, Elliott, Son & Boyton, 6 Vero Street, Oxford Street, W.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

AN old-established connection with Retail Chemists throughout the United Kingdom, together with a complete Selling Organisation comprising twelve representatives, is at the disposal of Manufacturers of high-class Specialities. Apply, in first instance, to "X. Y. Z." (230/32), Office of this Paper.

INFLUENTIAL Indian Agency.—Manager, resident in India and with offices in all important towns, practically controlling the Bombay, Calcutta, and Karachi markets, is desirous of securing agencies for Chemicals, Medicinal Drugs, Fruit Salts, Oils, Patent Medicines, and Drugs of every description; at present representing many of the oldest and largest British Commercial Houses in various lines; if the rates are in order and shipments can be made large orders can be guaranteed immediately. Address inquiries to Box "B," Brockie, Haslam & Co., 23 Fleet Street, London, E.C. 4.

SOLE Agents required for Colonies and Abroad for well-advertised Proprietary Toilet Articles. Established firms only reply to 26/53, Office of this Paper.

PARTNERSHIPS.

BUSINESS Man wishes to invest some money in a Chemist's Business, either in shares in a limited company or Partnership in private concern, with business that could be extended preferred. Apply, with full particulars, which will be treated in the utmost confidence, to H. Edwards, 59 North Street, Brighton.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

BATH.—Wanted at once, capable Assistant with good Dispensing experience, for best-class Business; no Insurance work; permanent, temporary, or part time; good salary offered; easy hours could be arranged. Davies & John, 15 Old Bond Street, Bath.

BIRMINGHAM DISTRICT.—Assistant, lady or gentleman (if latter ineligible), for Counter and to assist with Dispensing and Stock; brisk trade; good salary; full particulars first letter. "Lex" (228/40), Office of this Paper.

BIRMINGHAM.—Unqualified Assistant; age about 46; must have had brisk Counter experience and have fair knowledge of Dispensing; permanency. "Ley" (229/144), Office of this Paper.

BIRMINGHAM.—Good opening for smart, unqualified man, age over 42, in the office of a well-known firm; must have had all-round experience and be well up in prices. "Hazel" (229/141), Office of this Paper.

BOLTON.—Qualified, for Light Retail; state age, salary, send photo if possible; no Sunday duty. Apply, Charles Crane, Ltd., 235/237, St. Helens Road, Bolton.

BRIGHTON.—An Assistant, lady or gentleman, required for Dispensing in a good-class Business; no N.H.I.; comfortable home. Apply, with usual particulars and photo if possible, to W. H. Gibson, 122 King's Road, Brighton.

BRISTOL.—Branch Manager for Bristol suburban Branch; married man preferred; live on premises; must have exemption or be over military age. State age, salary required, and references, to Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

BURSLER.—Wanted, lady Assistant; age about 21; accustomed to Chemist's Retail; outdoors. Please give reference and state salary, T. Charles, Chemist, Burslem, Staffs.

CANTERBURY.—Assistant; unqualified; ineligible; accustomed to good-class Business. Full particulars, with photo, to E. Bing & Son, Pharmaceutical Chemists, Canterbury.

CHELTHENHAM.—Assistant, ineligible or lady, for Dispensing business. Dolman, Bath Road, Cheltenham.

CHEPSTOW (MON.).—Wanted, Assistant; lady or gentleman (ineligible); outdoors; easy hours and no Sunday duty. Also qualified Manager for Branch. Apply, stating age, experience, and salary required, Clarke, Chemist, Chepstow.

COLWYN BAY.—Qualified or unqualified Assistant wanted, with knowledge of Photography (no developing or printing); outdoors; easy hours. State experience, salary required, military position, age, etc., to D. Llewelyn Jones, Chemist, Colwyn Bay.


EAST GRINSTEAD.—Two capable Assistants (outdoors) wanted, ineligible for military service; one as Branch Manager for Dispensing and quick Counter trade; one day a week off at one o'clock; no Sunday duty; hours 8 to 8. Usual particulars to Dixon & Sons, Chemists, East Grinstead.

FLINT, NORTH WALES.—Assistant; lady or gentleman; Dispensing and Counter work; outdoors; state usual particulars, salary expected, and when disengaged. Apply, W. Topping, Trelawney Square, Flint, North Wales.

RESULTS

OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK MAY 5 1917

| NATURE OF ADVT. | REPLIES |
|-----------------|---------|
| UNQUAL. | 15 |
| ASSISTT | 13 |
| MANAGER | 10 |
| LOCUM | 9 |
| PART-TIME | 8 |



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

HAMPSHIRE.—Unqualified Assistant, Army ineligible or discharged soldier, required for first-class Business in Hampshire, near permanent military camp; very fine neighbourhood for summer months; good outdoor berth. Or unqualified Locum for summer months only would be entertained. State salary, when disengaged, photo if possible, Keeble, Chemist, Liss, Hampshire.

HARROGATE.—Wanted, unqualified Assistant, either male or female, in High-class Dispensing business; indoors; splendid experience. Apply, stating age, height, references, and salary required, A. B. Payton, Crown Pharmacy, Harrogate.

HEREFORD.—Wanted, for good-class Business, a lady Assistant; short hours; no extra duty; comfortable berth with good experience; outdoors; give full particulars. Walter Marchant, 36 High Town, Hereford.

LEAMINGTON.—Junior or Improver; indoors. Apply, with usual particulars, J. Price, 42 Bath Street, Leamington.

LEEDS.—Locum wanted for 8 days in June. Apply, with references, to E. Halliday Bedford, 9 Hyde Park Corner, Leeds.

LIVERPOOL.—Qualified Branch Manager, Light Retail, to take sole charge. Apply, with full particulars, age, references, and salary required, to B. D. H., c/o John Thompson, Ltd., 58 Hanover Street, Liverpool.

LIVERPOOL.—Junior Assistant in brisk city Business; 3 kept; must be ineligible or discharged; state age, height, salary (outdoors), and references (photo if convenient). John Bain, 4 Quadrant, Lime Street, Liverpool.

LONDON.—Experienced and active Assistant; qualified or unqualified; lady or gentleman; hours 9 to 8; no Sunday duty; outdoors; permanency. Call between 12 and 4, or write, giving full particulars, to Cofman's Pharmacy, 6 Bloomsbury Street, W.C.

LONDON.—Qualified Manager for Branch; salary £3 10s. to commence; hours 9 a.m. till 9 p.m.; whole day holiday a week; alternate Sunday from 6.30 till 9 p.m. (two kept); over military age or ineligible for Army. Apply, with full particulars, stating age, experience, etc., to "Pharmacist" (230/38), Office of this Paper.

LONDON, N.W.—Messrs. W. H. Bell & Co., 96 Albany Street, Regent's Park, require a lady Assistant at once.

LONDON, S.W.—Lady Assistant required, with some Dispensing experience and good handwriting. Apply, A. J. Phillips, 156 Cromwell Road, South Kensington, S.W.

LONDON, S.W.—An Assistant wanted for Dispensing and Retail; ineligible. Apply, with full particulars, or personally, to A. W., c/o Alsop & Quiller, 137 Sloane Street, S.W.

LONDON, W.—Assistant required; immediate vacancy; one accustomed to Dispensing preferred. Rouse & Co., 12 Wigmore Street, W. 1.

LONDON, WEST (Near Baker Street).—Evening Assistant each Thursday (5 till 8 o'clock) and alternate Sunday (6 till 8 o'clock); state experience and salary required. Apply, 230/19, Office of this Paper.

MANCHESTER.—A qualified man required to manage Branch; a good Counterman with references essential; generous treatment to a good man. Apply, "Soda," c/o Heath Bros., Blackfriars, Manchester.

MANCHESTER.—Young lady required for Chemist's Business; must have some experience with a Chemist; permanency. "Manchester" (229/142), Office of this Paper.

MANCHESTER.—Messrs. Blain & Hankinson, Pharmaceutical Chemists, 69 Market Street, require an unqualified man, ineligible, as Stockkeeper; must have good references.

MANCHESTER.—Mottershead & Co., 7 Exchange Street, require an unqualified Assistant accustomed to good-class business; no Insurance work or Sunday duty; state age, experience, and salary expected.

MANCHESTER.—Assistant, qualified, male (ineligible) or female, for highest-class Pharmacy; hours 8.30 to 7 o'clock; no Sunday duty. State age, salary, experience, references, and send photo, if possible, to Westmacott & Son, 17 Market Street, Manchester.

MIDDLESBROUGH.—Lady Dispenser for Doctor; used to Panel work and Card Index. Apply, stating salary and references, Middleton & Co., Chemists, Middlesbrough.

NOTTINGHAM.—Wanted, soon as possible, experienced Assistant, either sex, for Light Retail and Dispensing; please give particulars of experience and say salary required. Bass & Wilford, Ltd., 52 Milton Street.

RICHMOND, SURREY.—Lady Assistant wanted for Counter and Dispensing; good-class Store trade; permanency and no Sunday duties. Apply, personally or by letter, Coppin Bros., Ltd., 12½ Carey Street, Vincent Square, Westminster, S.W.

RUGBY.—Assistant, junior, lady or gentleman, in good-class Dispensing and Retail business. Particulars to Percy B. Gray, Pharmaceutical Chemist, Rugby.

SOUTH of England.—Assistant required; free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTHSEA.—A lady Assistant; Hall qualification; outdoors. Apply, Arnold & Sons, Southsea Pharmacy.

SWINDON.—Assistant (ineligible) required for good-class Mixed Retail Dispensing and Photographic business. Full particulars to Green & Co., Chemists, Swindon.

TAUNTON.—Wanted, reliable, unqualified Assistant; outdoors; easy hours. Apply, with full particulars, to Gregory & Wrenn, Chemists, Taunton.

TIPTON.—Dispenser wanted; Minor qualification; lady, or gentleman ineligible for military service. Apply, Eades, Ltd., 21 Owen Street, Tipton, Staffs.

WEST OF ENGLAND.—Wanted, for Dispensing Business, competent man, not over 46, for two or three months; possible permanency; salary £4 per week to good man, who must be quick and accurate. 230/27, Office of this Paper.

WOLVERHAMPTON.—Unqualified Assistant required; good-class Light Retail and Dispensing business; applicants must be men ineligible for the Army or women; full particulars of past experience, age, and salary desired must be stated in first letter. Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (229/140), Office of this Paper.

AN unqualified Assistant, ineligible for the Army, for Thompson & Capper's Birkenhead Branch. Apply, in first place by letter, enclosing photograph if possible, to Manesty Buildings, College Lane, Liverpool.

ASSISTANT; outdoors; discharged, exempted, or otherwise not liable for military service. Apply, personally, or, if by letter, give particulars of recent situations, age, height, salary required, and enclose photo, to Hooper, Strube & Co., Ltd., 26 Davies Street, Grosvenor Square, London, W.

ASSISTANT wanted at once, whole or part time, lady or gentleman, chiefly for N.H.I. Dispensing; personal interview early any morning or 'Phone 1850 North. Lane & Foot, 195 Seven Sisters Road, Finsbury Park, N.

BRANCH Manager wanted at once; must be over military age or ineligible; please apply, in the first instance by letter, stating salary required, when disengaged, and enclosing, if possible, recent photograph. Apply, 229/100, Office of this Paper.

DISPENSING Assistant (lady or gentleman), for N.H.I. Light Retail, etc., in healthy Midlands country town; outdoors; hours easy; no Sunday duty; comfortable berth. State salary required and full particulars to Blades, Chemist, Leek, Staffs.

LADY Assistant required for good-class Dispensing business. Lyon, 18 Formosa Street, Maida Vale, W.

LADY Dispenser wanted (qualified), with some knowledge of Bookkeeping. State experience and wages required to Dre. Ryley and Peers, Great Yarmouth.

MANAGER required (at once) (ineligible) to take full charge; knowledge of agricultural business essential. Apply, with full particulars, experience, age, references, and salary required, to Allen & Neale, King's Lynn.

MANAGER wanted; ineligible; permanency; South Wales colliery district; Light Retail and N.H.I.; good salary offered. Apply, "Salieu" (229/10), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PART-TIME (Male) Assistant; mornings, afternoons, or both; state fully hours to spare and salary required. Marshall & Co., 5 Pimlico Road, S.W. 1.

QUALIFIED Manager (single), age about 45, required for Relief work; permanent and lucrative post. "Relief" (229/143), Office of this Paper.

QUALIFIED Assistant; elderly or ineligible; easy berth; alternate Sunday duty. Full particulars to 228/6, Office of this Paper.

QUALIFIED Lady Dispenser and Bookkeeper required by Doctor; East Coast; state age, experience, and salary required (outdoors). Apply, 227/13, Office of this Paper.

QUALIFIED lady Pharmacist, outdoors, required for first-class Dispensing business; no N.H.I., and but little Counter work. Apply, by letter, to 27/45, Office of this Paper.

QUALIFIED Dispenser, lady or gentleman. Apply to the Manager, Cooper, Son & Co., Ltd., 24 Sloane Street, S.W. 1.

REQUIRED, Dispenser; Minor qualifications; hours of work approximately 8.45 to 6 o'clock, 1 o'clock Saturdays; no Sunday duty. Apply, stating full particulars of past experience and salary required, to "L. J.," Army and Navy Stores, 105 Victoria Street, S.W. 1.

SALESMAN and Dispenser wanted (unqualified); must be ineligible or over military age. Apply, in the first instance by letter, stating salary required, when disengaged, and enclosing, if possible, recent photograph, 229/1, Office of this Paper.

THE South Western Joint Pricing Committee require temporarily Expert Technical Supervisor to take charge of Pricing Department, including training and general oversight of lady Pricers; must be ineligible for military service. Particulars of experience, age, salary required, etc., to be sent to the Secretary, Cardwell Chambers, 5 Marsh Street, Bristol.

UNQUALIFIED Assistant, outdoors, for Prescribing and Speciality business; good wages; prospective situation. State salary, age, and references, Hulme, Chemist, Nottingham.

WANTED, qualified Assistant for Dispensing and Light General Retail; lady or gentleman, if the latter must be ineligible; indoors. Apply, stating experience, full particulars, and salary required, to F. Tunbridge, 39 Castle Street, Reading.

WANTED.—Assistants, Senior and Junior, for Retail and Wholesale business; accustomed to Agricultural and Veterinary requirements in particular; good hours. Apply, with full particulars of age, experience, salary required, etc., to Mr. Frank G. Hines, c/o Messrs. M. Folkard, 15/14 Pavement, York.

WANTED, Dispenser; fully qualified M.P.S.; outdoors; permanency for reliable man; salary £180 per annum. Apply, stating age, full particulars, with three recent testimonials, and references, by May 19th, Secretary, Medical Institute, Norwich.

WANTED, qualified Assistant, principally for Dispensing; exempt or over age; good salary. Apply Heppell's, 78 Strand, W.C.

WANTED, Manager (qualified), for progressive Business; salary and commission; good prospects; permanency. W. Bennison, Ph.C., 133 King's Road, Chelsea, S.W. 3.

WANTED, Chemist, to manage Light Business on Tyneside; owner called up; liberal terms; suit over-age man or one medically unfit. Apply Fleming, Chemist, Hebburn.

YOUNG Lady Dispenser required; one with Counter experience preferred; must have the Apothecaries' Hall qualification. If convenient, apply personally any morning (except Saturday), Parke's Drug Stores, Ltd., 65 Harwood Street, N.W.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LIVERPOOL DISTRICT.—Drug Traveller wanted. Apply, 27/13, Office of this Paper.

MANCHESTER.—Wanted, experienced Drug Mixer (not eligible for Army). Wages, etc., to Kaputine, Ltd., Lilley Street, Queen's Road, Manchester.

ASSISTANT required at once for Wholesale Manufacturing Druggists' Laboratory; ineligible for Army. Apply, giving full particulars, Davies, Sons & Co., Manufacturing Chemists, Derby.

CITY House requires experienced Counterman (ineligible); used to handling bulk quantities of Fine Chemicals; good prospects for suitable man. Apply, with particulars of experience and wages required, to "X. Y. Z." (26/63), Office of this Paper.

LADY Chemist (qualified) for Laboratory, Perfumery, and Toilet Preparations; responsible and accurate worker would be given good salary and secure permanent position. Apply, in first instance by letter, to "Anglo-Parisian" (22/65), Office of this Paper.

LEADING London House requires experienced Export Despatch Clerk; ineligible. Apply, giving full particulars, 24/62, Office of this Paper.

MIDLANDS.—Gentleman to represent Drug House. Details, 27/130, Office of this Paper.

PACKER (35s.).—Experienced man wanted in a London House as Export Packer; permanency to suitable applicant. Apply, stating full particulars, to 229/3, Office of this Paper.

TINCTURE-MAKER wanted by a Wholesale firm; must be acquainted with Press; permanency; state experience and wages. Apply 229/27, Office of this Paper.

TRAVELLERS, with good connections amongst Chemists, required to take up a well-advertised Proprietary; 10 per cent. commission; inquiries for the Proprietary are being received from all parts of the country. "Ocol" (229/14), Office of this Paper.

WANTED, Working Assistant (ineligible) for Wholesale Druggists' Laboratory. Apply, with full particulars as to experience, references, wages asked, etc., to Evans, Gadd & Co., Ltd., Exeter.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

CEYLON.—Qualified Assistant required, disqualified for military service, for one of the most important Wholesale Houses in Colombo; salary first year 2,700 rupees, second year 3,000 rupees, third year 3,300 rupees, fourth year 3,600 rupees; commission paid on night and Sunday duty; second-class passage paid out and home on completion of the agreement. Apply, "G. K." (25/63), Office of this Paper.

CHINA.—One or two thoroughly competent Assistants (ineligible for military service); age 21-30; must have Ltd good experience in high-class Retail business; liberal terms; two years' agreement; passage paid out and home. Address, "China" (228/31), Office of this Paper.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

AS Locum, permanency; good references, experience; moderate terms. "Chemist," c/o 4 Richmond Road, Bayswater, W.

ASSISTANT (25) requires part-time situation; Nottingham preferred. Apply, 228/33, Office of this Paper.

DISPENSER and Bookkeeper, over military age, requires engagement to medical man; thoroughly efficient and experienced; excellent testimonials and references; five years in last, four in previous situation; salary moderate (outdoors). H. Brice, 9 Church Road, St. Thomas, Exeter.

DOCTOR'S Daughter, qualified Dispenser, desires part-time work or Locum; London or suburbs. Apply J. M. H., 29 Warwick Road, Ealing, W. 5.

EVENING Work; Dispensing or Counter; West-End experience; W. or S.W. district preferred; over military age. "Cicla," 37 Lavender Hill, S.W. 11.

GLASGOW.—Youth; Improver; 18 months' experience in Glasgow Apothecaries; excellent references. Apply, 229/17, Office of this Paper.

HOSPITAL Attendant; Institution; Dispense; willing, obliging; 45. Fisher, 106, Liverpool Road, Barnsbury, N.

LADY Dispenser (Hall); permanent or Locum; 3 years' experience in private practice and Military Hospital; 4 months' General Hospital training; willing assist Dressings. Miss Wilmer Green, Gayhurst, Brentwood, Essex.

LADY Dispenser (Hall), some Institution experience, desires post. Apply, 227/17, Office of this Paper.

LADY Dispenser (Hall qualification) desires post, Doctor or Hospital; Croydon or Sutton districts. "Oakdene," Park Gate Road, Wallington.

LADY Dispenser (Hall) desires post in or near London, in or near Brighton. M. Gilderson, 20 Boundary Road, Hove, Brighton.

LADY Dispenser (Hall) desires post for few hours daily; experienced. "M. R." (229/37), Office of this Paper.

LOCUM; ineligible; terms moderate; London or South Coast. Innisfallen, Tower Road, Worthing.

LOCUM; at once; qualified; £4 per week London, elsewhere £4 5s. plus travelling expenses; experienced in all branches. "Pharmacist," 1 Caithness Road, W. 14.

LOCUM; reliable. Address "M.P.S." c/o John Thompson, Ltd., 58 Hanover Street, Liverpool.

LOCUM.—Pharmacist offers relief; fortnight or less; July; London or seaside preferred. Apply, 230/25, Office of this Paper.

LOCUM or otherwise; disengaged in a fortnight. "Aspirin," 37 Upper Kennington Lane, S.E.

MANAGER or Locum; town or country; unique experience; active; middle-aged. "M.P.S." (229/25), Office of this Paper.

MANAGER; qualified; ineligible; tall; gentlemanly appearance; keen Buyer and Salesman. "Scopari" (231/3), Office of this Paper.

PART-TIME Dispensing wanted near Aylesbury; Hall qualification. Clarke, Chatley Dene, Great Missenden.

PART TIME; Monday, Wednesday, Friday, and Saturday evenings from 6.30 and alternate Sunday duty; qualified; best West-End experience. State salary offered to "Beta" (229/20), Office of this Paper.

PART TIME (not evenings), or Locum: 53; qualified. "London" (231/24), Office of this Paper.

PHARMACIST, elderly, active, a business-builder, is open to engagement; London district; up-to-date Dispenser and Counterman; interview invited. 119 Mountain Road, N. 4.

QUALIFIED, 25, desires post in Midlands; C 3, conditional exemption; free end of month. Apply, 229/7, Office of this Paper.

QUALIFIED (33); Branch Manager or Senior; reliable and energetic; married; outdoors; excellent references; rejected. Downing, 82 Grove Hill Road, Tunbridge Wells.

QUALIFIED Manager; first-class experience and references; interview; London preferred; view to purchase entertained; good salary required. Apply, 229/34, Office of this Paper.

QUALIFIED Manager, by elderly, active man; good Counterman, Dispenser, Prescriber, and references; accustomed to sole charge; London suburbs or Home Counties preferred. Apply, "Pyro" (229/22), Office of this Paper.

QUALIFIED; disengaged; ineligible; extensive and varied all-round experience; Hospital, Institution, or other Dispensing preferred; would work up neglected Prescribing business; outdoors; correspondence invited. "Reliable" (230/8), Office of this Paper.

UNQUALIFIED; elderly; good experience; Prescriber; Tooth Extractor and Dispenser; country; disengaged. C. K. S., 179 Church Road, East Ham.

UNQUALIFIED, 27, married, good Dispenser and Counterman, seeks post; W. suburb only; Shepherd's Bush preferred; disengaged May 21st. Reply, 229/24, Office of this Paper.

UNQUALIFIED; ineligible; good all-round Assistant; well recommended; reasonable salary. "Gentian" (231/2), Office of this Paper.

UNQUALIFIED; 22; C 3; Dispensing, Counter, and Photography; present engagement three years; state salary and hours; provincial preferred. Apply, 231/8, Office of this Paper.

YOUNG Lady requires situation as Chemist Assistant and Window-dresser, 2½ years' experience; wages 25s. to 30s. Write, P. W., 136 Links Road, Tooting Junction, S.W. 17.

YOUNG Lady (Hall) desires a post as Dispenser with Doctor or Institution; please state salary, hours, etc. Apply, 228/7, Office of this Paper.

35s; qualified; outdoors; elderly; light work; private means. Apply, 228/38, Office of this Paper.

WHOLESALE.

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COMMERCIAL Traveller, resident in Manchester, discharged from Army on account of wounds, well known to High-class Grocers, Chemists, and Co-op. Stores in Lancashire, Westmorland, Cumberland, North Staffs, etc., is open to represent a good House; advertiser has had fifteen years' experience on the ground, is a first-class Salesman, and can give highest references. Apply, 229/4, Office of this Paper.

PHARMACEUTICAL Chemist (Medallist Chemistry), with Analytical and Manufacturing experience, is open to accept all kinds of Analytical work in own Laboratory, undertake technical investigations, etc. Please address requirements to 229/38, Office of this Paper.

TRAVELLER; ineligible; Chemists, United Kingdom; Proprietaries, Foods, Toilet Articles, Medical Lozenges, Disinfectants; references. Apply, 230/26, Office of this Paper.

TRAVELLER represent good, established firm; connection London and suburbs; Drugs, genuine Proprietaries, Perfumes; or manage opening new Business; best references; scientific training. Apply, 231/32, Office of this Paper.

WANTED, by Advertiser, ineligible for Army, good situation; well up in Patents, Druggists' Sundries, competent to take charge Warehouse or Stores; no reasonable offer refused; town or country. Apply, 229/29, Office of this Paper.

Colonial and Foreign News.

SACCHARIN IN BULGARIA.—According to the "Mir" (March 30) the Ministry of Finance has prepared the terms for the purchase of 5,000 kilos. of saccharin, of 400 strength.

SARGOL.—Wylie B. Jones and Herbert E. Woodward, the manufacturers in the United States of sargol, which is advertised as capable of making thin people fat, have been fined \$30,000 for using the mails for a fraudulent purpose. The trial at Auburn, N.Y., occupied thirteen weeks, hundreds of witnesses were examined, and two truckloads of correspondence was before the Court. The Judge, in pronouncing sentence, said the evidence showed that sargol could not and would not do what defendants claimed for it.

CENTRALISING PHARMACY TRAINING.—The Nederlandsche Maatschappij ter Bevordering der Pharmacie has vigorously protested to the Minister of the Home Department against the project for centralising university training in pharmacy at Utrecht. It is pointed out that there is the danger to be feared that pharmaceutical education will be changed from a scientific education to a professional one, arranged for the purpose of passing examinations. The claim that the present professors have specialised in particular branches of their work cannot hold good in the future, although it may appear to be an advantage at present. It is feared also that the banishing of pharmacy from the other universities would undermine the status of pharmacists.

SWINDLE SOAPS.—Some criticisms of the Austrian official "K.V." soap are replied to in "Die Zeit." The critic, Dr. Fritz Horn, counsel for some soap-makers who were summoned for placing swindle soaps on the market, suggested that the official K.V. soap is fraudulently made and sold at an excessive price. Dr. Horn states that this soap often contains less than the required proportion of sebacic acid, and that it is "filled" with kaolin, which injures clothes and stops up the drains. The reply of the War Union of the Oil and Fat Industry is that the need for economy in fats renders the use of filling-materials absolutely necessary, and that the statements that kaolin is injurious are unfounded. The Union does not think the price of the soap is excessive.

ITALIAN STATE QUININE.—The Italian Government are building a large factory at Turin for the manufacture of quinine, which has been a State monopoly since 1900. During 1914 Italy imported 46,359 kilos., valued at 2,596,104 lire, of which Germany supplied 34,995 kilos., the Dutch Indies 10,000 kilos., Great Britain 642 kilos., Switzerland 26 kilos., and France 73 kilos. During 1915 the imports amounted to 35,000 kilos., and for the first eight months (January-August) of 1916 the imports were 64,965 kilos. This much larger consumption is, of course, due to the war, and that accounts for the building of a new factory, the ground having been placed at the disposal of the Government by the Turin Municipality. Hitherto the manufacture of quinine has been entrusted to the Central Military Pharmacy in Turin, but they could only supply a small proportion of the demand.

MALTED MILK.—Food Inspection Decision 170 of the U.S.A. Department of Agriculture gives definitions of sweetened condensed milk, condensed skimmed milk, sweetened condensed skimmed milk, dried milk, dried skimmed milk, and malted milk. The last-named is as follows (including the spelling): "Malted milk is the product made by combining whole milk with the liquid separated from a mash of ground barley malt and wheat flour, with or without the addition of sodium chlorid, sodium bicarbonate, and potassium bicarbonate in such a manner as to secure the full enzymic action of the malt extract and by removing water. The resulting product contains not less than seven and one-half per cent (7.5%) of butter fat and not more than three and one-half per cent (3.5%) of moisture."

SALVARSAN.—We mentioned recently that a German Deputy was taking action in respect to salvarsan on the ground that a number of fatalities had arisen through its use. The Government has now declared that the allegations as to fatalities are much exaggerated; indeed, Dr. Kirchner, director of the medical division of the Home Department, states that reports as to deaths in Frankfurt are entirely false. Other equally emphatic contradictions have been made, but none of the persons who have died from salvarsan has become alive again. A University Rector has stated that salvarsan costs only 8m. per kilo. of manufacture, and it is sold at 16,000m. per kilo. Great satisfaction appears to have arisen in the Prussian House of Deputies owing to a statement being made that the salvarsan patent is the first one that the English have "stolen."

Military Tribunals' Decisions.

The following notes refer to cases decided since our last report:

ASHBOURNE.—Conditional exemption has been granted to Alfred Allsopp, chemist's assistant.

BATH.—Exemption was refused to E. T. Kingston, assistant with his father, Mr. G. T. Kingston, dispensing chemist.

BERMONDSEY.—The Tribunal has decided not to make it a condition of exemption from military service that the applicant should register for National Service.—A cooper with Brandram Bros. & Co., Ltd., sulphur-manufacturers, Rotherhithe, has been granted a further three months' exemption.

BISHOP'S STORTFORD.—The Military Representative successfully appealed against exemption granted to H. C. Dodd, chemist's apprentice.

BOURNE.—The Kesteven Tribunal granted exemption until June 30 to Mr. C. H. M. Baxter, dispensing chemist.

BRAINTREE.—Three months' exemption was granted to G. Brown, chemist's assistant.

BRIERLEY HILL.—Three months' exemption was granted to an assistant with Needhams, Ltd.

CARLISLE.—The application of Mr. A. Nichol, Ph.C., on behalf of A. E. Harvey, his apprentice, was postponed to enable him to prove that it is impossible to obtain other assistance.

CHATHAM.—The West Kent Appeal Court has granted three months' exemption to W. C. Mason, assistant with C. E. Beveridge & Co., chemists.

DORKING.—Three months' exemption was allowed by the Surrey Appeal Tribunal to Mr. H. Dixon, dispensing chemist.

DEOTWICH.—One month's final exemption was allowed to Mr. P. C. Harris, chemist and druggist, assistant to his father, Mr. Stephen Harris, dispensing chemist.

DURHAM.—Exemption until the end of September was granted to the assistant employed by Mr. W. Smith, dispensing chemist.

HALIFAX.—Exemption until June 30 was granted to Herbert Boardall, assistant to Mr. J. Patchett, dispensing chemist.

HEYSHAM.—The Military Representative appealed against the conditional exemption granted to Mr. R. G. Postlethwaite, dispensing chemist, on the ground that there are sufficient chemists in Heysham and Morecambe to meet the requirements of the National Insurance Acts. Mr. Postlethwaite, whose partner is a man of military age, was given exemption until July 31.

LANCASTER.—The appeal by Mr. James Vince, dispensing chemist, for exemption for his manager was dismissed, but the calling-up is to be deferred until the end of July.

MALVERN.—Exemption was refused to Mr. E. P. Andrews, chemist and druggist, manager of the Barnard's Green Pharmacy, belonging to Mr. A. E. Baylis, dispensing chemist.

NUNEATON.—Conditional exemption until a substitute can be found was granted to J. H. Robson, assistant with Mr. C. B. Baker, Ph.C.

PERSHORE.—A substitution order was made in the case of Mr. A. C. Smith, chemist and druggist, assistant with his father, Mr. A. W. Smith, dispensing chemist.

QUEENSBURY.—The conditional exemption granted to John Brooksbank, dispenser, has been withdrawn, and he is to be called up when a substitute can be found.

READING.—The conditional exemption granted to Mr. J. E. Clarke, dispensing chemist at Royal Berkshire Hospital, has been withdrawn as from May 25.

ROMFORD.—Three months' exemption was granted to Ernest Cox, apprentice to Mr. T. England, dispensing chemist, to enable him to sit for an examination.

SOUTHWARK.—Conditional exemption was confirmed to Mr. J. P. Madden, chemist, and director of Holland's Distillery, where essential oils are being made which before the war were made in Germany.

SPALDING.—Leave to re-hear the application of Mr. E. A. Osborn, dispensing chemist, was granted by the Holland Appeal Tribunal (see *C. & D.*, April 21, p. 34).

WREXHAM.—Conditional exemption was granted to Mr. G. R. K. Mawer, dispensing chemist, manager of the Ruabon branch of L. Rowland & Co.

E. SCHERING, BERLIN, made a net profit of 1,587,812m. in 1916-17, against 1,294,246m. in 1915-16, and are paying a 16-per-cent. dividend, against 12 per cent. in the year before. Increased sales are the cause of the prosperity.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on April Analytical Exercise.

THE powder distributed to students on April 10 contained six parts by weight of calcium phosphate, three parts of magnesium sulphate, and one part of lithium carbonate. The calculated composition of such a mixture is—

| | | | | | |
|------------------|-----|-----|-----|-----|------|
| Ca | ... | ... | ... | ... | 23.2 |
| Mg | ... | ... | ... | ... | 3.0 |
| Li | ... | ... | ... | ... | 1.9 |
| PO ₄ | ... | ... | ... | ... | 36.8 |
| SO ₄ | ... | ... | ... | ... | 11.7 |
| CO ₃ | ... | ... | ... | ... | 8.1 |
| H ₂ O | ... | ... | ... | ... | 15.3 |

100.0

There were also present, as impurities, well-marked traces of sodium and chlorine (found to be contained in the calcium phosphate) and recognisable traces of iron and of an ammonium compound.

Samples of the powder were sent out to thirty applicants, but only eight reports on its analysis were received—a result which must be ascribed to the abnormal conditions now prevailing. All the acid radicals were detected by every correspondent, but calcium and magnesium were each missed in two cases, while the evolution of water when the powder was heated in a dry test-tube was overlooked in one instance. The lithium remained undetected by all who submitted reports.

In this exercise several of the points in connection with the analysis of phosphates which commonly give rise to errors, or are misunderstood, were met with or suggested in the reports sent in, and reference may here be made to one or two of the most important of these. When the addition of ammonium chloride and excess of ammonia, as group-reagents, at the appropriate stage, has produced a precipitate which contains the phosphoric-acid radical and this precipitate has been removed by filtration, the filtrate is sometimes insufficiently examined, or is even left altogether unexamined, and this is apparently due to the want of a correct appreciation of what it may still contain. There are two main possibilities to be considered. It may contain part of the phosphoric-acid radical which was originally present and which has not been precipitated as insoluble phosphate, in which case it need only be tested for metals of the zinc group and for alkali metals. On the other hand, it may be free from the phosphoric-acid radical, the quantity of this radical originally present having been insufficient to precipitate, as phosphates, the whole of the iron and barium group metals and magnesium, and in this case it may still contain metals of all groups after the iron group. The presence or absence of the phosphoric-acid radical should therefore be established by testing a portion of the filtrate with magnesium chloride (not magnesium sulphate, since in the presence of barium this might confuse matters by producing a precipitate of barium sulphate), and the further procedure should be guided by the result.

Some misunderstanding exists as to the behaviour of metals of the zinc group in the case of phosphate mixtures. In presence of sufficient ammonium chloride, these metals are not precipitated as phosphates by ammonia unless a precipitate of other phosphates is being formed, and then only small quantities are carried down with it. Several students referred to and treated the original phosphate precipitate as if it should contain the phosphates of any metals of the zinc group, and omitted to test for these metals in the filtrate in which they ought to have been sought for.

The uniform failures to detect the lithium were mainly due to the masking effect of the flame reaction produced by the considerable sodium impurity present, whereas the lithium flame as seen through blue glass was not infrequently attributed to potassium. Only in one case was lithium tested for by any special test, and then unsuccessfully. Under the circumstances, the presence of lithium was likely to be overlooked unless the spectroscope was employed.

PRIZES.

The First Prize for the best analysis has been awarded to F. WILDMAN, 53 Bute Street, Nottingham.

The Second Prize has been awarded to

JOHN J. WITTEN, 51 Hendon Road, Sunderland.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

| | | | | | |
|--------------------------|-----|----------|-----------------|-----|----|
| F. Wildman (1st Prize) | 88 | G. C. | ... | ... | 71 |
| J. J. Witten (2nd Prize) | 80 | Richmond | ... | ... | 69 |
| Worm Killer | ... | 77 | Twinkle Star | ... | 68 |
| Onyx | ... | 74 | Nil Desperandum | ... | 67 |

TO CORRESPONDENTS.

J. J. WITTEN.—You omitted to say whether the separation of the phosphoric-acid radical by means of sodium acetate and ferric chloride was applied to the whole of the original hydrochloric-acid solution or to the hydrochloric-acid solution of the precipitate obtained from the latter on adding ammonium chloride and excess of ammonia; and hence it is not clear whether the sodium which you found was that originally present in the powder as impurity, or mainly that added by yourself as acetate. This should have been ascertainable from your report.

WORM KILLER.—The solution to be tested for a sulphate by means of barium chloride should be acidified with dilute hydrochloric acid, not with concentrated nitric acid. Barium chloride is itself sparingly soluble in the latter, and barium sulphate is very distinctly more soluble in dilute nitric than in dilute hydrochloric acid.

ONYX.—You report iron as a main constituent, whereas it amounted only to a recognisable trace. In view of the large proportion of calcium present, your failure to detect it would appear to indicate insufficient care in separating the phosphoric-acid radical, or in testing for calcium after the separation.

G. C.—Contrary to your experience we found the filtrate from the original phosphate precipitate to contain magnesium in abundance. The phosphate precipitate should also have been dealt with as if it might contain magnesium, but you seem to have concluded your examination of it as soon as you detected calcium.

RICHMOND.—The supposed sulphur dioxide evolved on heating the powder with dilute hydrochloric acid was simply some volatilised hydrochloric acid. The use of dilute sulphuric acid would have avoided this error. You should have followed up the indication of the presence of a haloid acid which you obtained with silver nitrate.

TWINKLE STAR.—Apart from the fact that potassium hydroxide is more likely to contain impurities than high-class sodium carbonate, there are disadvantages attending the use of the former instead of the latter in preparing a solution to be tested for acid radicals. Occasionally useful, or even necessary, a soluble hydroxide is less generally applicable for this purpose than an alkali-metal carbonate.

NIL DESPERANDUM.—You may find it instructive to study what is stated in the general remarks above as to the metallic radicals which may be present in the precipitate and in the filtrate respectively, on adding ammonium chloride and excess of ammonia to the hydrochloric-acid solution of a powder which, as in the present instance, does not contain any metals of the silver, copper, and arsenic groups.

THE ANALYTICAL TOURNAMENT.

The exercise reported upon in the foregoing being the final one of the Tournament series for the current session, we are now able to announce the results. Despite the unfavourable conditions prevailing, the competition attracted a gratifying amount of attention, and meritorious reports were sent in by most of the thirty-five competitors.

The first place in the Tournament has been taken by "Digitalin" (Mr. F. Wildman, 53 Bute Avenue, Nottingham) with the very creditable aggregate of 531, made up of 84, 93, 91, 82, 93 and 88, and to him the First Prize of books to the value of 2*l.* 2*s.*, with a certificate, has been awarded.

The Second Prize of books to the value of 1*l.* 1*s.*, and a certificate, have been awarded to "Worm Killer" (Mr. Frank Atkins, 7 Francis Road, Leyton, Essex), whose aggregate is 440, made up of 74, 76, 94, 42, 77, and 77.

The Third Prize of books to the value of 10*s.* 6*d.*, and a certificate, have been awarded to "Jayjay" (Mr. J. J. Witten, 51 Hendon Road, Sunderland), whose aggregate is 426, made up of 79, 73, 74, 45, 75, and 80.

We congratulate these students on their success, and shall be pleased to hear from them at once as to the books which they desire to have as prizes.

GLYCERIN SUBSTITUTES.—The "B.M.J." publishes a note from Squire & Sons, Ltd., regarding two glycerin substitutes which they have analysed. One was a solution of glucose, about the same specific gravity as simple syrup, and the other mucilage of tragacanth preserved with chloroform-water. Both would make mixtures more viscous, which, it is pointed out, is one only of the several purposes for which glycerin is prescribed.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

DENTAL.

FOR sale, 12 dental showpieces, celluloid and vulcanite. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

WHAT offers? 4 oz. Phenacetin Powder, $\frac{1}{4}$ doz. bts. 25 Phenacetin Tablets, gr. v. Rugg, Chemist, Redbourne, Herts.
PEPPERMINT Oil, American, 20 lb. £11, carriage paid; smaller quantities 11s. 6d. per lb; good pungent oil. Kirkness, Chemist, Ashford, Kent.
BISMUTH Carb. B.P., overstocked, $\frac{1}{4}$ lb. at 13s. 9d., 1 lb. 13s. 6d., 4 lb. 13s.; carriage paid. Manars Pure Drug Company, Ltd., 10 High Road, Wood Green. N.

MISCELLANEOUS.

SUPPOSITORIES Mould for Sale, 6.15 gr. Best offer. Apply, 231/34, Office of this Paper.
BARGAIN; cheap; over 200 round stock bottles and jars; good condition; speote jar and 2 carboys (complete). "Taleum," 60 Stafford Road, Barnet.
FOR Disposal, about 60 x 2s. 6d. Durban Duplex Safety Razors, 12 x 5s. ditto, and a few @ 10s. 6d. and 21s.; also accessories; any reasonable price accepted for all or part. Liston, Chemist, Limerick.

WANTED.

BLOCK liquorice wanted; not in sticks. Apply, 9/46, Office of this Paper.
OFFERS of any quantities of covered $\frac{1}{2}$ oz. Jars required. Particulars to 26/530, Office of this Paper.
WANTED immediately, National Cash Register, second-hand. Send particulars, Davies, Chemist, Llanelly.
ALL-GLASS Silent Salesman to stand on counter, 3, 4, or 5 ft. Particulars and price to Braid, Chemist, Exmouth.
13 GROSS 2 oz. Medical Flats; what offers? Sample for four stamps. Finlayson, Pharmacist, Stockton-on-Tees.
CORN Paint Brushes wanted immediately. Send sample, state quantity and price, to V. Latty, Chemist, Brislington, Bristol.
WANTED, a Bakers' No. 6 Whisking Machine; must be in good condition; state price. Apply, 227/210, Office of this Paper.
WANTED, complete Optician's Trial Case. For Disposal 5 pairs Maw's Dental Forceps; need renickelling. Apply, 227/14, Office of this Paper.
OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.
WANTED, dependable form for white peppermint tooth paste suitable for tubes, with no glycerine. Price, with sample, to Roger Burns, c/o 59 Dingwall Road, Croydon.
WANTED, a Gardner's Quick-change Powder Dresser or Centrifugal Dressing Machine, with patent rapid mixer; state size, all particulars, and price. Apply, 227/21, Office of this Paper.
COMPLETE Dentist's Outfit wanted (vulcanite work); chair, lathes, vulcaniser, instruments, etc.; all must be good and reasonable. Full particulars. Apply, 216/2, Office of this Paper.
WANTED, a good second-hand gas-heated Drying Oven or Chamber, 2 or 3 ft. square, with 10 or 12 trays, to take at least 56 lb. of material at one time, occupying 36 cubic in. per lb. Also 2-h.p. Motor or therabouts, voltage 5.30. S. Williams & Co., 78 Fetter Lane, E.C. 4.

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For the interchange of scarce pharmaceutical products. Minimum charge (prepaid) which includes registration fee: 1/- for six words or less; 2d. per word beyond.

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

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Shares for Sale (free of commission, subject).—66 Allen & Hambury A 6% Pref., 20s. 3d.; 35 B. Pref., 20s.; 20 Lewis & Burrows Ord., 6s. 6d.; 50 Pref., 15s. 9d.; 300 Magadi Soda Is. 6d. Deferred, 4s.; 600 Mutamba Sugar Is. 6d.; 50 Parkes Drug Ord., 9s. 9d.; 40 Pref., 14s. 9d.; 200 Sanitas, 20s. 11d.; 140 Watford Manufacturing Pref., 10s.

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Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOWCASES.—Large quantity of All-Glass Counters (second-hand), Silent Salesman, and upright Cases with glass shelves; most useful and paying adjuncts to any Pharmacy; make splendid show; moderate prices; all other Pharmacy Fittings ready for immediate use. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

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means the loss of time, which means money if you are interested in a proposition which on an outlay of £1:8:0 returns you £3:12:0 in a few weeks' time. Send now a stamped addressed envelope, and we will post you particulars and give you a sample free. Now then, write us per return.

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Council Election

The **REAL** Progressives are

5. HINES

6. JENKIN

7. KIRKPATRICK

IF YOU MEAN BUSINESS
VOTE ONLY FOR ABOVE

Progress Is Needed
Progressives Count

Pharmaceutical Council Election

TO THE MEMBERS OF THE
PHARMACEUTICAL SOCIETY.

The County of Surrey Association of
Pharmacists earnestly ask you to support

W. H. FOWLER

The Candidate with a sound policy.

VOTE FOR No. 3.

To Brother Members of the Pharmaceutical Society

WE, the undersigned Members of the Council retiring by virtue of the By-Laws, having had the privilege of serving you for the past three years, offer ourselves for re-election in the hope that our experience, coupled with the desire to advance the general interests of Pharmacists, may be deemed of value to the Society and to Pharmacy.

WE ARE ALL RETAIL PHARMACISTS in various parts of the country, and it will be our special aim to see that no opportunity is neglected to improve the material interests of those engaged in retail practice in Great Britain.

NATIONAL INSURANCE.—We are profoundly dissatisfied with the conditions of the Pharmaceutical service under the Act, as well as with the utterly inadequate remuneration offered for that service, and will strongly support every effort to secure proper recognition, financial and otherwise, for the important duties discharged by Pharmacists.

ORGANISATION is a vital necessity for Pharmacy, and we stand for a progressive policy in its widest and sanest sense; the scrapping of what is wrong, extending what is sound, and generally making our organisation effective to meet the changed conditions of pharmaceutical business and the greater demands on co-operative effort.

F. E. BILSON, *Bournemouth.*

J. H. CUFF, *Dover.*

J. F. HARRINGTON, *London.*

P. F. ROWSELL, *Exeter.*

J. R. YOUNG, *Warrington.*

PHARMACEUTICAL COUNCIL ELECTION.

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is for business men to control the every-day interests of the working chemist—the man behind the counter.

VOTE FOR HINES

HIS INTERESTS ARE YOURS.
YOUR PROBLEMS ARE HIS.

Let Bloomsbury hear from you, and
GIVE HIM A RECORD VOTE!

York & District Chemists' Association.

Pharmaceutical Council Election, 1917.

FELLOW-MEMBERS OF THE
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VOTE FOR
**JENKIN and
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PROGRESSIVES

MATTERS OF INTEREST.

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Supplies are still restricted; for the moment we can supply in small quantities only.

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